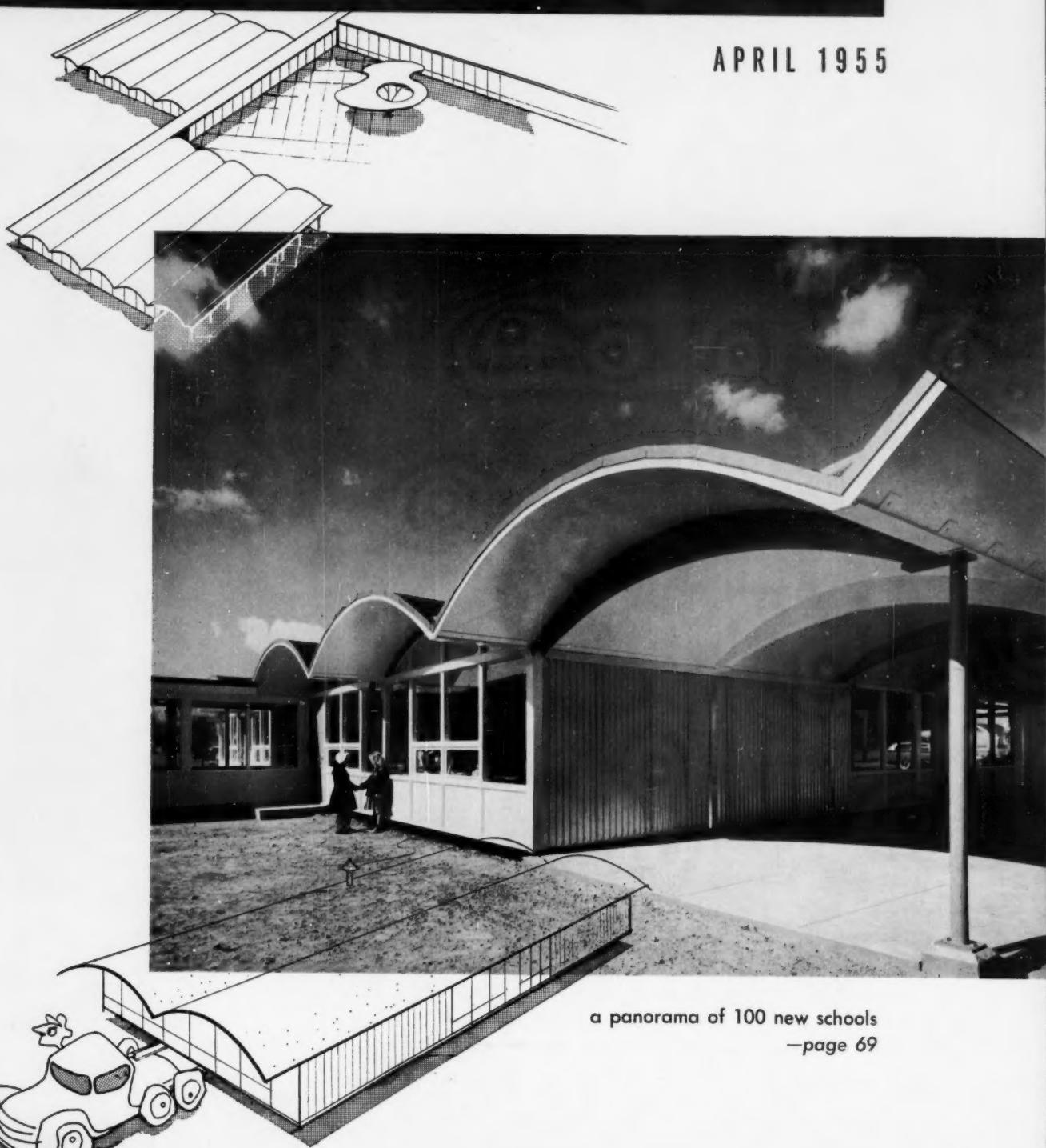
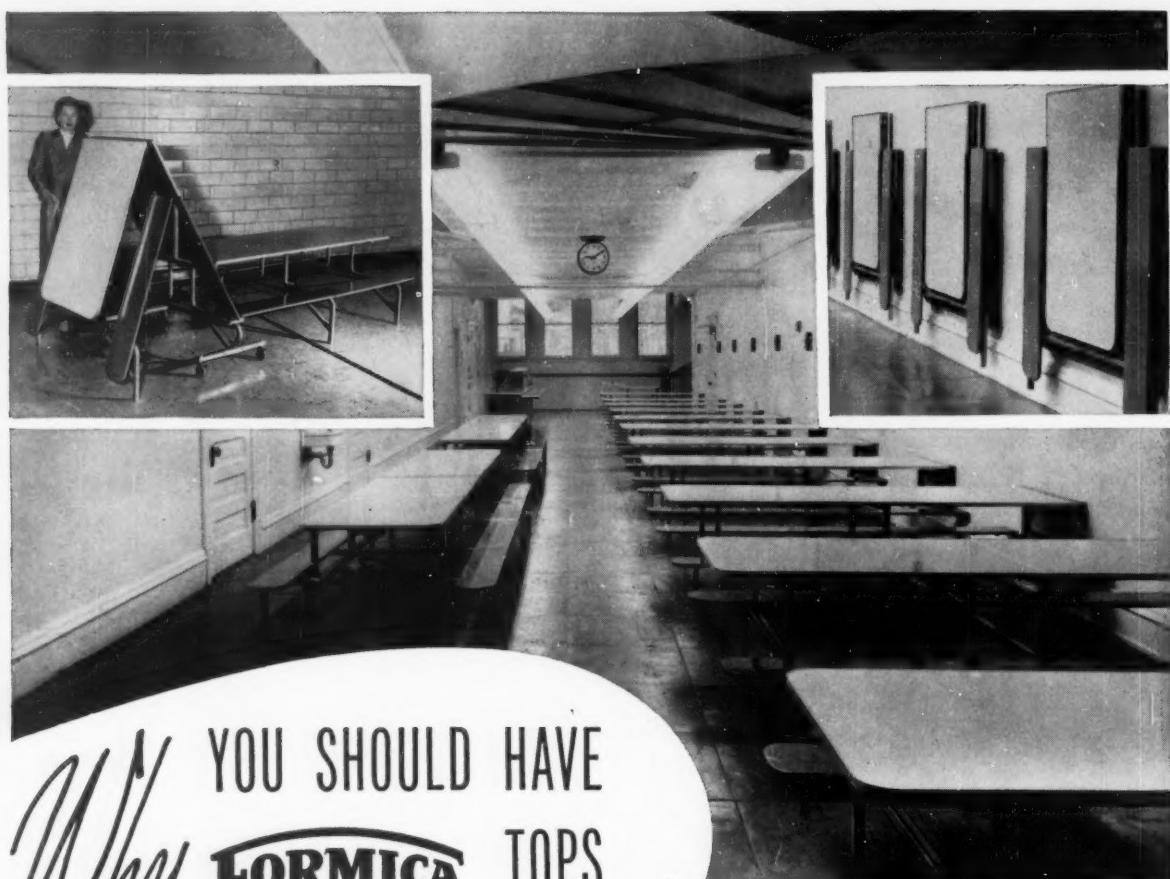


The School Executive

APRIL 1955



a panorama of 100 new schools
—page 69



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The School Executive

APRIL, 1955

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COVER	The Transportable 4-Classroom Elementary School in Dearborn, Michigan (designed by Eberle M. Smith Associates), one of the winners in the School Design Competition and one of the 100 schools examined in this month's 33-page Planning Section. Photo by Lens Art.
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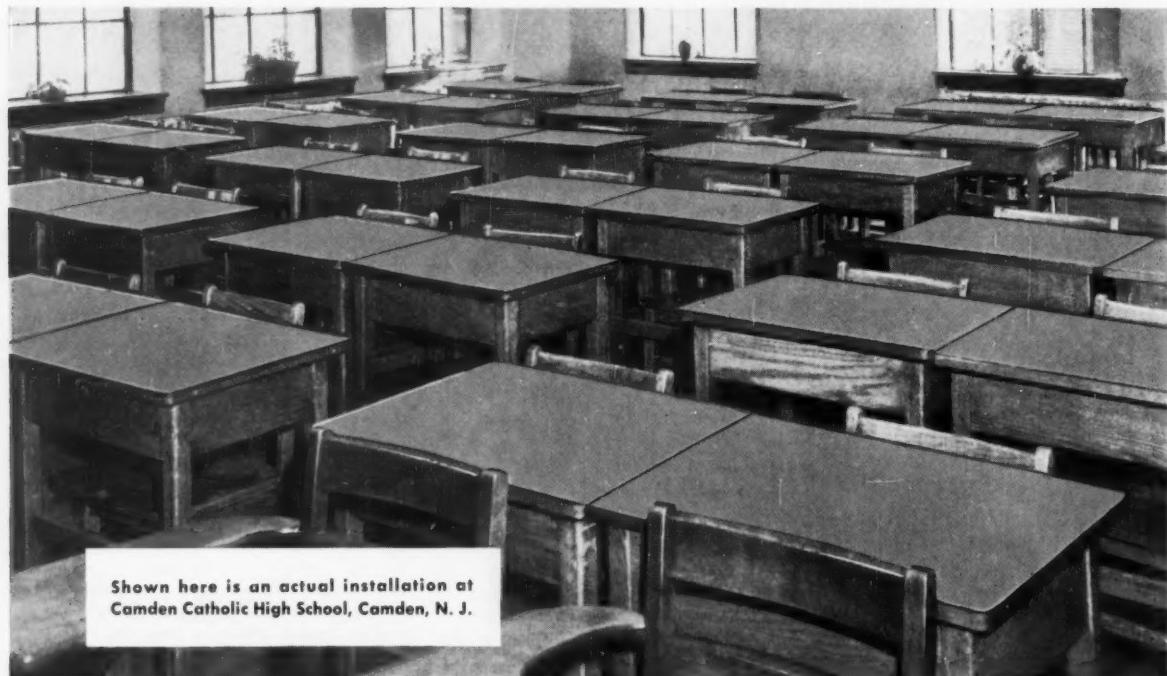
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April, 1955

Preview for May

Among the articles scheduled for the May SCHOOL EXECUTIVE you will find the following:

● An Educational Planning symposium in which six superintendents (from New York, Texas, California, Connecticut, Georgia and Indiana) describe the personnel selection methods that are practiced in their school systems.

● A discussion of the secondary school commons, or social-learning center, in terms of both architecture and education. Co-authored by an architect and a schoolman, it describes such spaces as are found in a number of new school buildings and presents drawings of an ideally-designed commons.

● An account of a Santa Barbara, California, program in which high school students become acquainted with various vocations and professions by serving as unpaid workers.

● Descriptions of two new college programs: Oklahoma A and M College's education program for the preparation of school administrators, and the University of Georgia's new internship program for school principals.

● A discussion of the adequacy of the property tax for supporting local schools. Scheduled for the Great Sheet, it is authored by Arvid Burke, researcher with the New York State Teachers Association.

Sincerely,
Walter D. Cocking, Editor

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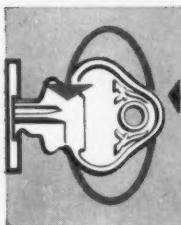
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Last Word in elementary school wardrobes

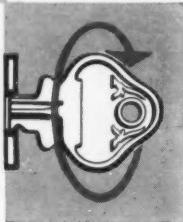


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AS I SEE IT

by Walter D. Gocking

The Approach to Criticism

CRITICISM is as American as baseball. We believe that at a baseball game every spectator has the inalienable right to criticize players, managers, umpires and anybody else. Our public school system, too, is as American as the game of baseball. And during the past several years, a lot of Americans have criticized their public schools loudly and vituperatively.

As Voltaire is supposed to have said, "I disapprove of what you say, but I will defend to the death your right to say it," so I must agree today with the right of all citizens to criticize their schools even though some particular criticisms are unfounded and unfair. We are concerned here with the nature of criticism and with the approach the critic should use in arriving at his criticism.

As I see it, the *right* to criticize carries with it the *obligation* to know and understand the person, the thing, the institution which one seeks to criticize. Too much emphasis has been placed on the right—all too little on the obligation which the critic must accept for really understanding what he criticizes. This is not quite fair. Those who would criticize the American system of public education have the obligation to study and to inform themselves *before* they criticize.

They have the obligation to understand, among other things, why we have public education in this country, the purposes it is supposed to achieve, and those for whom it exists. They should know the problems public education faces, the solutions being tried, the obstacles which must be overcome, the results being secured.

THEY SHOULD know the people who are responsible for schools: boards of education, administrators, teachers and other participants in this great enterprise. It is one thing to criticize a group of unknown officials. It is quite a different thing to offer the same criticism to people whom you have taken the trouble to know as persons. How frequently one hears "of course I don't mean you" from the critic.

Critics have the additional obligation before they criticize of separating fact from fancy, fact from hearsay, fact from prejudice. It may not be easy, yet it is an obligation they accept in their critic's role. Much criticism would never be made if the critic lived up

to this obligation, and much harm would be avoided.

There is another side to criticism. It can be most helpful and constructive. It can result in improved performance. Criticism has value in keeping those responsible for schools on their toes, alert, and ready for any contingency. Continuing study, thought and planning are stimulated when programs of action are under the glare of community scrutiny. We have learned through experience that we get the best government when there is a strong and active minority. Without a strong minority, the group in power tends to become complacent and self-satisfied. Constructive criticism of our schools produces the same type of results. Policies and programs are restudied to discover refinements and improvements. Procedures for improvement are constantly sought. Personnel are actively aware of their responsibilities and strive for high levels of performance.

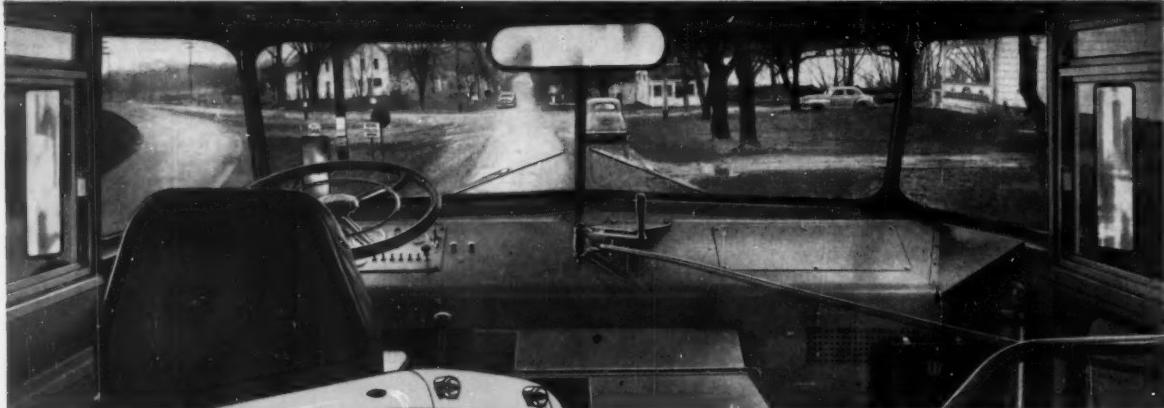
WHAT, THEN, are the ingredients of constructive criticism? As I see it, they are a thorough analysis of all pertinent facts related to the subject under criticism, clearly stated objections, definite reasons concisely presented for the objections and, finally and most important, the critic's proposals with which he would replace the matters to which he objects. When these steps are followed, then criticism is constructive.

In so many cases, the critic is satisfied to find fault or to object, without setting forth a better plan. The critic has the obligation, it seems to me, to propose an alternative which itself will come under scrutiny and possible criticism. But the critic must be willing to receive as well as to give criticism. When the critic uses these ingredients carefully and forthrightly, the subject criticized can be intelligently examined and considered, necessary revisions if any can be made, and public understanding can be developed.

Finally, criticism should be impersonal. It should be directed at a proposal, an idea, a program—rarely, if ever, at a person. Much of the heat and emotion so often connected with criticism would not appear if this simple suggestion were followed.

Let's welcome and use criticism. It has a useful service to render. But, let's raise the character and quality of criticism far above present levels.

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KEYNOTES

comments on the educational scene

The Administration's school building plan

PRESIDENT EISENHOWER ON February 8, 1955, sent a special message to the Congress outlining a proposed program to aid school construction.

On the same date, New Jersey Senator H. Alexander Smith and seventeen other Senators introduced in the Senate Bill S. 968 to implement the Administration's recommendations. A companion bill was introduced in the House of Representatives by Representative Peter Frelinghuysen, Jr., (N. J.).

Hearings on the Senate bill began February 15. Educators rather generally seem to oppose the bill's provisions.

THE SCHOOL EXECUTIVE, while it welcomes the administration's recognition—even though tardy—of the Federal Government's concern with the nation's school building problem, must oppose the bill in its original form. Only Title IV, which authorizes grants to states to assist in meeting administrative costs to revise existing regulations on financing school construction and reorganizing school districts, can be endorsed.

The bill actually does not propose much federal assistance in meeting the costs of school plant construction. Probably not more than \$70 million in federal money would be available in any one year. Such an amount would build about 30 schools, when the need exists for more than 7,000 new buildings per year.

The bill proposes that the credit of the Federal Government would be used under certain conditions and where necessary. But the restrictions which qualify this provision are such that it is improbable that it could be used in many cases, and at the same time it would seem to dangerously imperil the sale of bonds by states and local districts.

The Federal Government either has or has not a responsibility for schools. If it has, it would seem a very poor way to recognize that responsibility by providing that state and local districts must first exhaust their financial resources.

The bill, as written, proposes undue federal control. It contains more control provisions than any proposed school legislation in the past twenty years. Many of the controls proposed appear unnecessary and unwise.

The bill seems to recommend that the states authorize lending agencies called state authorities. While it is true that three or four states already have such agencies, this device for tapping the state's financial credit and constructing buildings is a most controversial one. At best it is only an expedient to be used in the absence of a sound tax structure.

The best which can be said for the Administration's

proposal is that it does recognize some federal concern for school construction. The provisions of the proposed legislation, however, show that concern to be so limited that it would not make a dent in the total backlog of needed buildings. Furthermore, the proposed provisions seem not only unworkable but unwise.

Surely the Federal Administration and the Congress can do better than S. 968 proposes (see page 156).

A bow to our secretaries

A RECENT STUDY OF factors related to the morale of superintendents of schools, made by the Associated Public School Systems, revealed that our secretaries deserve a lot more credit than we frequently give them.

Now that we stop to think of it, why not? Be honest now. Who is it who knows where "that" letter is filed—you know the one; the one that came a couple of weeks ago from over in the other part of the state. Who is it who unscrambles scrambled appointments, and keeps all concerned friendly toward you? Could it even be that occasionally she smooths out the English in your dictation just a *little* bit?

Seriously, though, we believe that if her services are as important as the superintendents in the Associated Public School Systems say, it is high time we examine the possibility of making her position a semi-professional one, or a technical assistantship. Here may be a relatively unexplored way to relieve the school administrator of some of his routine duties in a recognized way.

DANIEL R. DAVIES
*Professor of Education
Teachers College
Columbia University
New York City*

Television

ONE OF THE MOST important communication media ever developed is television. Through its use, the world can be brought into the living room of every family and into every classroom.

Educators have been aware of the potential importance of television. To date, however, few schools have found good ways of putting the medium to work.

Much remains to be done. Among the problems which need good answers are: What uses can be made of television in the regular on-going school programs? What special preparation do teachers need? What are the costs involved and how can they be met?

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SCHOOL PLANT

News & Views

Round-up of 1954 School Construction

More than 9,000 school buildings and additions were constructed during 1954, according to the forthcoming *American School and University* yearbook, at an estimated total cost of \$2.8 billion. Public schools accounted for 83 percent of the volume and 79 percent of the cost of this new construction.

Here is the breakdown of volume and cost by type of building:

	cost (in volume millions)
Public schools . . .	7567 \$2,264
Private schools . . .	687 109
Junior colleges . . .	165 35
Colleges	728 446
<i>Total</i>	<i>9147 \$2,854</i>

Nearly 4,000 public school systems in every section of the country completed one or more new buildings or additions during 1954. Thirty-eight percent of these districts were located in the Central states, 23 percent in the South (which completed 29 percent of the total public school construction), and 20 percent in the West.

Here is the cost distribution of 1954 public school construction by region:

New England	\$135,000,000
Middle Atlantic	628,000,000
Central	699,000,000
South	461,000,000
West	341,000,000
<i>Total</i>	<i>\$2,264,000,000</i>

Little Time Allowed For Educational Planning

Descriptions of the 107 school designs submitted to THE SCHOOL EXECUTIVE Fourth Annual Competition for Better School Design showed that a median of 8 1/3 months transpired between employment of the architects and completion of the final plans. Presumably any intensive educational planning involving both architects and schoolmen takes place essentially within this period.

Considering that a major portion of this time is necessarily consumed in completing purely architectural studies and plans, the time allotted to educational planning would seem to be limited to a few weeks. If these limitations are prevalent, it would seem highly questionable that more than the motions of educational planning can be carried out.

School Need for Decade: \$25 Billion

At least \$25 billion will be required during the next ten years to provide adequate school facilities for all children in the public schools. This is the estimate of University of Florida Professor R. L. Johns in his article on state and federal support for school construction in the forthcoming *American School and University*.

Dr. Johns refers to the \$10 billion accumulated need for school buildings cited in the recent Federal "School Facilities Survey." With pupil population increasing at the

rate of one million per year, he estimates that at least another \$10 billion (roughly \$1000 per pupil) will be needed to keep up with population growth. The depreciation of present buildings is estimated to be about one-half billion per year, adding another \$5 billion to the ten-year need.

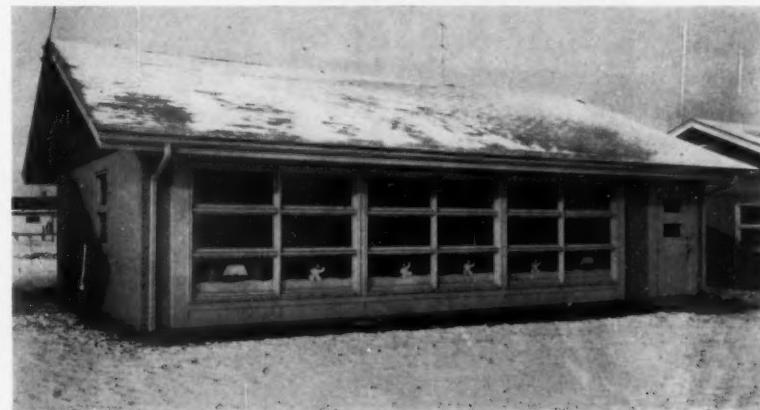
These estimates, Dr. Johns notes, do not include interest charges which "will be considerable because most of the funds used during the next ten years will be borrowed funds."

Triple-Duty Panels in Classroom

The Hollow Tree elementary school in Darien, Connecticut, has fibrous panels in each classroom mounted on strip metal runners. These serve three functions: as tackboard and as cover for cloak room when down, and as light-control device for darkening the room when raised.

Designed by architects Ketchum, Gina & Sharp, this school won a top award in THE SCHOOL EXECUTIVE's recent School Design Competition.

Schools Today—Homes Tomorrow



Designed by Max Rudd

Clusters of three and four of these one-room primary school residences have been going up in new Flint, Michigan, housing developments to accommodate the sudden influx of children. These are built in about 90 days at an approximate cost of \$12,000 per unit. When permanent school buildings are constructed to serve the area, officials plan to sell these to home-owners.

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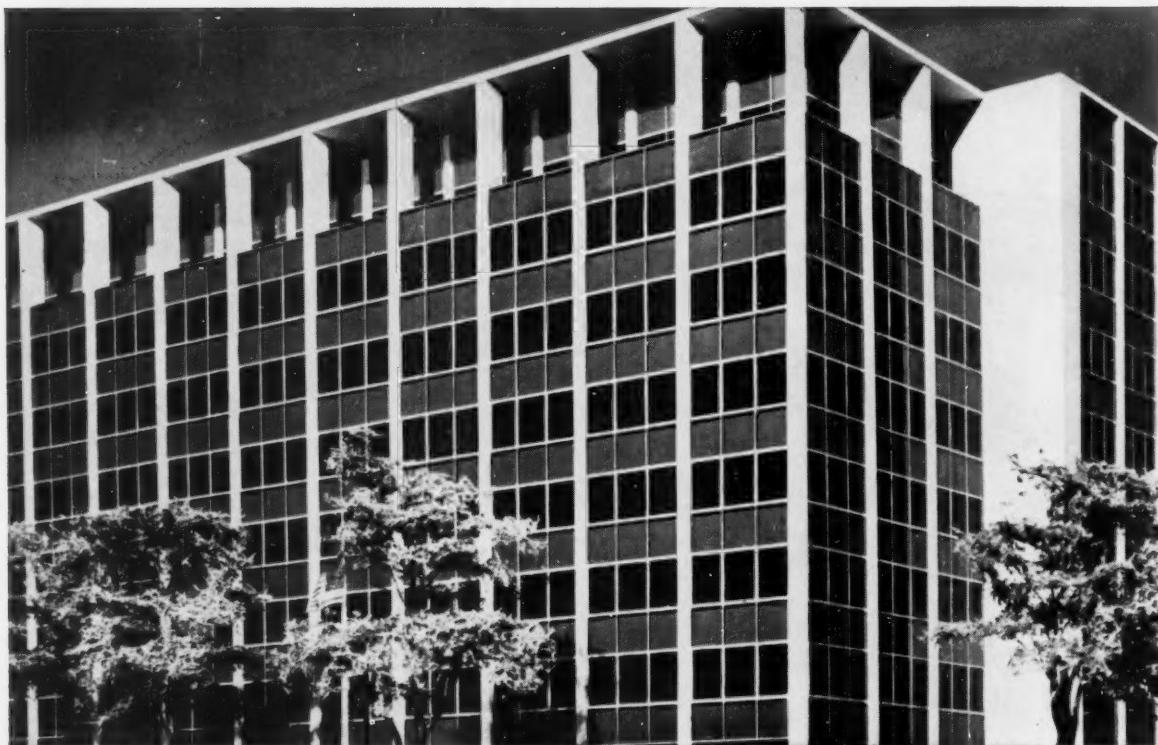
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LETTERS

to the editor

Sweeping thrust...

To THE EDITOR: My heartiest congratulations on the sweeping thrust of the January SCHOOL EXECUTIVE. You and your colleagues certainly did a crackerjack of a job on that one.... This number was something pretty special.

PAUL R. MORT
Professor of Education
Teachers College
Columbia University
New York City

Like a good meal...

To THE EDITOR: Just as one enjoys a wonderful meal by eating slowly, so by reading slowly I have added to my pleasure of reading the January 1955 issue.

It helped me gain some well-needed perspective of the educational scene, and I am very sure that it will assist my students to grasp the meaning of democratic education as it exists today.

ALFRED SCHWARTZ
Associate Professor of Education
College of Education
Drake University
Des Moines

Finest issue yet

To THE EDITOR: Since the appearance of the January issue, I have been wanting to tell you that I think it is possibly the finest issue you have turned out.

I hope that you will make each year the same review of the previous year's developments in education.

HARLAN L. HAGMAN
Dean
College of Education
Drake University
Des Moines

Economy and quality...

To THE EDITOR: THE SCHOOL EXECUTIVE is to be congratulated upon the excellent manner in which it has presented new economies de-

veloped in school house construction without sacrifice in quality.

Whenever the subject of school buildings arises almost invariably mention is made of the terrific costs. It is naturally a responsibility of all concerned to see that the tax payer's dollar goes as far as possible.

To assume that school board members, school administrators and architects are not aware of this fact and are not exerting every effort to cope with this situation, would be ridiculous.... They are facing this problem with the weapons they have at hand—careful planning, intelligent use of materials and efficient utilization of space.

There is also the question as to

whether or not the character of the structure should express the purpose it serves. With no thought of sacrificing the utilitarian requirements, shouldn't the quality of the building keep pace to some extent with what is taught in the class rooms?

Keat's poetry certainly wasn't strictly utilitarian, and cannot be evaluated in terms of the future earning capacity it will bring the student. Isn't it somewhat paradoxical to teach *Ode on a Grecian Urn* in a building in which there is no "beauty" and very little "truth"?

JOSEPH WILLARD WELLS, AIA
King and Wells
Norfolk, Va.

(Continued on page 150)

SE-310

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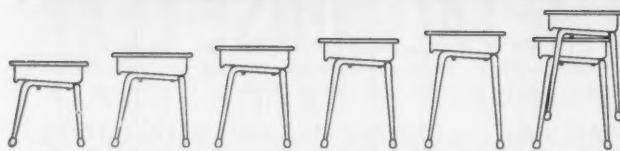
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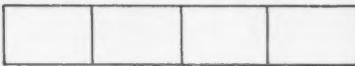
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CONFERENCES on education

ARKANSAS

Tentatively planned for September or October.

COLORADO

Regional meetings to be held before April 30; statewide conference on or about September 15.

CONNECTICUT

Held Nov. 30-Dec. 1; six regional conferences to be held in March and April.

DELAWARE

Tentatively planned for May.

GEORGIA

State Superintendent M. D. Collins reports Georgia does not plan a conference.

IDAHO

Scheduled for June.

ILLINOIS

Tentatively planned for May or June.

INDIANA

Scheduled for October 13.

IOWA

Held December 9-10; group studies to report in June.

KANSAS

Held December 9; group studies to report in October.

MAINE

Tentatively planned for June.

MARYLAND

Tentatively planned for June.

MASSACHUSETTS

Scheduled for September.

MICHIGAN

Scheduled for May 18.

MINNESOTA

To be held May 23-24.

MONTANA

Tentative plans call for school district and county conferences with culminating state conference.

NEBRASKA

Held Nov. 22: follow-up conference tentatively planned for June.

NEW HAMPSHIRE

Scheduled for May.

NEW JERSEY

Tentatively planned for May.

NORTH DAKOTA

Scheduled for October 3-4.

OREGON

Tentatively planned for June.

PENNSYLVANIA

Scheduled for April 14-15.

RHODE ISLAND

Tentative plans call for regional meetings followed by state conference in August or September.

SOUTH CAROLINA

Scheduled for June.

SOUTH DAKOTA

Two regional conferences scheduled for March 19 and April 2.

TENNESSEE

Tentatively planned for August or September.

TEXAS

Tentatively planned for April.

VERMONT

Tentatively planned for September.

VIRGINIA

Tentatively planned for August.

WASHINGTON

Held Nov. 22-23.

WEST VIRGINIA

Tentatively planned for May or June.

WISCONSIN

Tentatively planned for May or June.

WYOMING

Held Nov. 19; follow-up meeting scheduled for May.

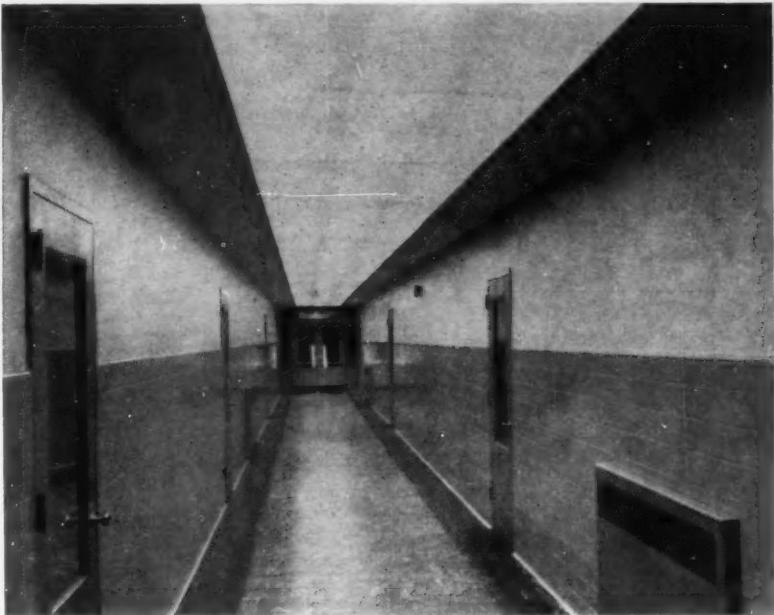
HAWAII

Scheduled for April 14-16.

PUERTO RICO

Tentatively planned for summer.

SE-312



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Where Can We Get More Teachers?

by MARGARET LINDSEY

Professor of Education,
Teachers College, Columbia University

THE two chief developments in teacher education today are the special programs designed to increase the supply of teachers and the significant modifications being made in the standard-four- or five-year programs.

Although there have always been problems related to securing competent teachers, today these difficulties are magnified to an unprecedented degree. Laymen and professional workers alike are deeply concerned over the critical shortage of teachers. Citizens have become aware of some of the factors which contribute to the inadequate supply of qualified teachers: rapid turnover in teaching personnel, increased enrollments in elementary and secondary schools, competition with other professions and occupations for available manpower and unsatisfactory working conditions of teachers. The current developments in preservice teacher education have resulted from efforts to induce greater numbers of able youth to prepare for teaching.

Recruit high school, college students for teaching

As educators have studied the problem of teacher supply, they have attempted to survey the possible sources from which teachers might be recruited. Obviously, present high school youth is one large reservoir. To capitalize on this potential group is the purpose of many active and direct recruitment programs now being sponsored by laymen and professional educators and by high schools and colleges. But even if these programs were to prove highly successful, it is doubtful that the supply could meet the demand. Furthermore, the need must be met now. Thousands of children of school age in 1955 cannot wait to enter school in 1960, when present recruits would be available as teachers.

A second reservoir of new teachers is found in the liberal arts colleges. There are students

now in these colleges who already have interest in teaching as a professional choice and others who might become interested if the path to the profession were open to them.

To attract these persons, many colleges and universities have developed special programs, which in general are designed as a year of professional study following graduation from the liberal arts institution and culminating in a master's degree and certification to teach. In some cases the program is planned to be a year of full-time study following the liberal arts program and prior to teaching. Usually referred to



Educators are sponsoring programs to interest high school youth in becoming members of the teaching profession

as a "fifth-year program," the year's study focuses on professional education, including some student teaching.

In other instances these programs are planned to include parallel study and service. For example, a student holding a bachelor of arts degree takes a six-weeks summer session of professional courses and is immediately employed by a school corporation as a fulltime teacher. During his first three years of teaching, he is under the joint supervision of local school personnel and the college. He studies on the college campus for two or three additional summers. By the end of his third year of teaching, he has completed a specially designed professional program and is granted a master's degree.

There is still another group which holds many potential teachers—relatively young housewives

who hold bachelor degrees and whose children are now of school age. If they could get the necessary preparation without undue pressure, many of these would be interested in serving their communities as teachers.

At present, some young women in this group are entering the profession through the special programs just described. However, there are others who cannot be away from home responsibilities for large blocks of time.

For this group it appears likely that another type of special program will be developed. This program would be designed to include parallel study and service, with both aspects operating in the local setting and with personnel from both a college and a local school system participating.

Special programs thus far established to increase the supply of teachers may have inadequacies, but it is essential that efforts be made by colleges and universities to insure that the vast number of teachers that will have to be

contribute to the student's ability to take a constructive place in society. Achievement of such a purpose necessitates focusing more attention on personal development and on current problems in our social order. This does not mean withdrawing attention from the cultural heritage.

Consequently, certain trends can be noted in general education programs for teachers. One is the selection of content in terms of its significance to students as they strive to understand and deal with current problems and issues. There is also an increase in instructional procedures which place more responsibility on the student in relation to the selection of experience and his own growth. The program now includes specific courses dealing with mental health, self understanding and personality development. Courses are organized in broad areas of knowledge such as the humanities, social sciences and natural sciences. There is a widespread increase in the amount of general education required of prospective teachers.

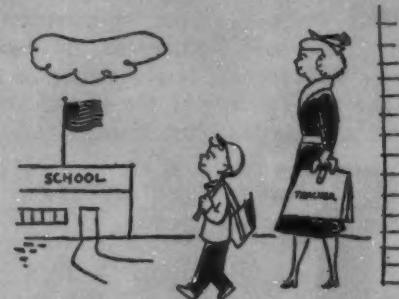
The teacher must know what he is trying to help others to learn. Today emphasis is being placed on specialization in programs of teacher education. These developments result from efforts to improve the quality, rather than the quantity, of specialization. We find the broadening of "majors" from one narrow aspect of a subject to more comprehensive coverage. Emphasis is given the methods for discovering knowledge in addition to acquiring already accumulated knowledge in the field. There is increasing attention to attitudes toward a subject, and intellectual curiosity regarding it. Such trends are consistent with the demands made on teachers by children and youth in today's schools and should insure a supply of teachers who will continue to grow in their fields of specialization.

Housewives who are college graduates, whose children are now of school age, are another source of new teachers

employed have some professional preparation for the task. Already the actions taken as a result of the demand for more teachers have produced some positive effects which will influence preservice teacher education for some time to come.

Virtually every part of the preservice program is now being examined. It is agreed that all teachers need a strong general education, but there is little agreement on how to provide this education. Increasing recognition of the importance of personality to successful teaching is resulting in major modifications in all parts of the program. Other developments indicate that educators are reaching some concord regarding what might be considered adequate background in areas of specialization, particularly for teachers in secondary schools. Still other significant revisions are the result of attempts to make more practical the professional aspect of the total program.

The chief purpose dominating modifications in general education for prospective teachers appears to be that of providing meaningful experiences in the broad areas of knowledge which will



Prospective teachers get practical experience

One of the most significant developments in this area is that of providing the prospective teacher with opportunities to increase his competence in practical ways. The student teaching program of only a few years ago, which consisted of one-hour-a-day practice in a classroom, is rapidly fading. In its place is a student teaching program that requires the future teacher to live and work in a total school setting, much as the medical intern lives and works in a hospital, and to participate in all the diverse responsibilities of the teacher. The tendency to provide such full-time experience in representative public schools is increasing.

Today, the student does more than read about or listen to what others have found through study and research. The present program provides opportunities for the prospective teacher



Student teachers now have opportunity to get actual experience in a total school setting on a full-time basis

to deepen his insights through participation in activities of children and youth in school and community settings. He gains much from these experiences that he could not otherwise acquire. He also brings to his reading and listening a readiness that makes for greater meaning and therefore better learning.

A second trend in professional education should be mentioned. As in general education, efforts are being made to screen the content in professional courses, to organize selected content in ways which will have most meaning for the student and to use instructional procedures which are sound. A great number of revisions

have been brought about as a result of these efforts. For example, in place of isolated methods courses in elementary education, in which there was much unnecessary duplication of content, there is often a sequence of two or three blocks which deal with larger areas of experience in childhood education. In place of a series of courses—principles of teaching, educational psychology, special methods—in secondary education, there is often a single course to which more time is allocated and which purports to deal as a unified whole with content generally ascribed to separate courses.

However, these are only the surface developments in preservice education of teachers. Confronting professional educators today are some of the most perturbing problems yet to be faced. Many of these problems grow out of implications from increased knowledge in different areas. Others are the result of greater concern with evaluation of the effectiveness of preparatory programs. Still others have their origins in a changing world.

But one fact is certain. Solutions to the problems attending the task of securing and educating more and better teachers will be found only as the general public and professional educators join forces.

Teachers' Salaries and the Cost of Living

HAROLD F. CLARK

Economic Analyst,
Teachers College, Columbia University

The index of real wages of teachers in February was 131.3 (1939=100). In January, it was 131.2.

The real wages of teachers continue to show a very slight improvement. This is because the cost of living for this group is reasonably stable and salaries continue to advance slightly.

Average teachers' salaries are beginning to reach the point where they can compete at certain levels of ability. Beginning salaries for teachers in many communities are definitely at a competitive level. The trouble is that, in many cases, the potentially available young people do not understand the situation. However, there are serious problems regarding teachers' salaries at some levels.

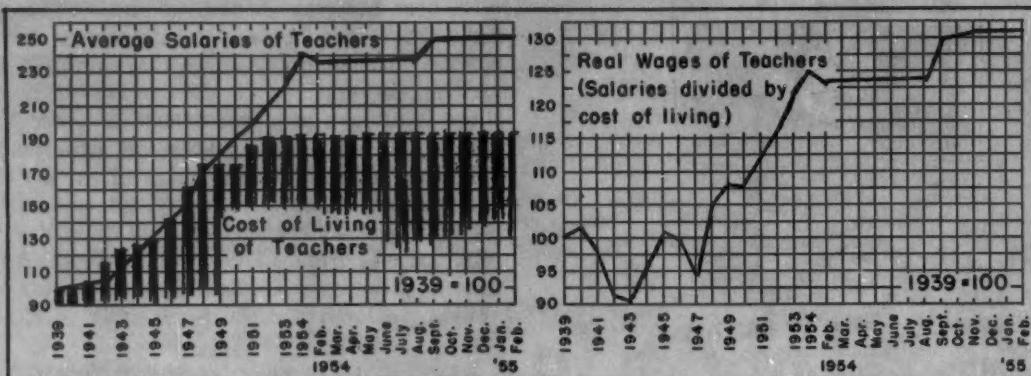
Teachers' salaries are too low. They may be all right for mediocrity; but salary schedules have little in them to attract men and women with

talent. The starting salaries may be fine; but greater rewards are needed at the top.

The schools have to find ways to appeal to people with great ability. If all goes well, it looks as if the schools may be able to solve the problem of beginning salaries. It is even possible that the average salaries can be raised to a reasonably competitive level. The real problem will be to find some method to pay the extremely able teachers.

When efforts are made to raise salaries of all teachers to the level that would be required to get a reasonable number of very able instructors, the argument arises that some of today's teachers are already overpaid. In two different school systems in the country, one in the east and one on the west coast, the boards of education were quite willing to go to \$9,000 for the good teachers. They were quite unwilling to pay obviously mediocre teachers \$9,000.

In neither case could the school people come up with a solution to this problem. The result was the retention of the old salary schedule. It is simply not realistic to assume that the public is



Real wages of teachers show slight improvement: Index rose from 131.2 in January to 131.3 in February.

going to pay each and every teacher in a school system \$9,000, if the teacher simply manages to live long enough.

There are thousands of teachers who are not worth \$9,000. The school boards and the public know this is true. Any effort on the part of teachers to act as though this is not so is simply going to cause confusion.

Need two million teachers within next decade

The problem is difficult; as a matter of fact, it is so difficult that no school system has yet found even a reasonably satisfactory solution to the question. We are going to need approximately two million teachers in the United States by the end of the next decade.

It is not reasonable to expect to have that many extremely able teachers. That will simply be an impossibility. We do need some few thousands, or tens of thousands, of extremely able teachers. These teachers can do much to improve the entire school system, to improve education and the methods of running a school.

But some way has to be found to get these very able people and to keep them in teaching, once they enter the field. At least up to the present, it looks as though most schemes of merit rating ultimately run into some kind of difficulty.

There is one solution that should be thoroughly investigated by as many schools as possible. This is the use of these able instructors as demonstration teachers. With an additional job specifically assigned to them, it should be relatively easy to adjust pay to necessary levels.

In the light of the developing situation regarding teachers taking second jobs, this solution may be more feasible. Some studies being made at the present time indicate that a very high proportion of male teachers in many communities already have second jobs. These are usually outside the school system.

If a teacher is asked to take on a specific additional job inside the system, it would seem to be even more reasonable to pay him a substantial amount over the regular salary schedule. This procedure may offer the technique for breaking the deadlock that now threatens to slow down the development of many school systems. This should make it possible to find and to keep a reasonable number of extremely able teachers, assign them extra training duties, and get much more rapid progress in improving our schools than we have had up to this time.

Schools need quota of extraordinary teachers

The evidence is quite clear in other occupations that most improvements come from a relatively small percentage of the workers. The ablest 5 percent of the workers in any field probably produce 95 percent of all improvements made. If this ablest five percent is not much above the average of the occupation, improvement is likely to be slow and advances very few.

Improvements in education depend, to a very large extent, upon this relatively small number of persons. Every school system should make a real effort to see that it has its reasonable quota of extraordinarily able teachers.

Next Month: Is Property Tax Adequate to Support Schools?—Arvid J. Burke.

No. 125. Reprints in quantities of ten or more may be purchased from The School Executive, 470 Fourth Avenue, New York 16, New York. 10 copies for 1 month: \$1.00, for 12 months: \$10.00; 25 copies for 1 month: \$2.00 for 12 months: \$20.00; 50 copies for 1 month: \$3.00, for 12 months: \$30.00; 100 copies for 1 month: \$5.00, for 12 months: \$50.00.



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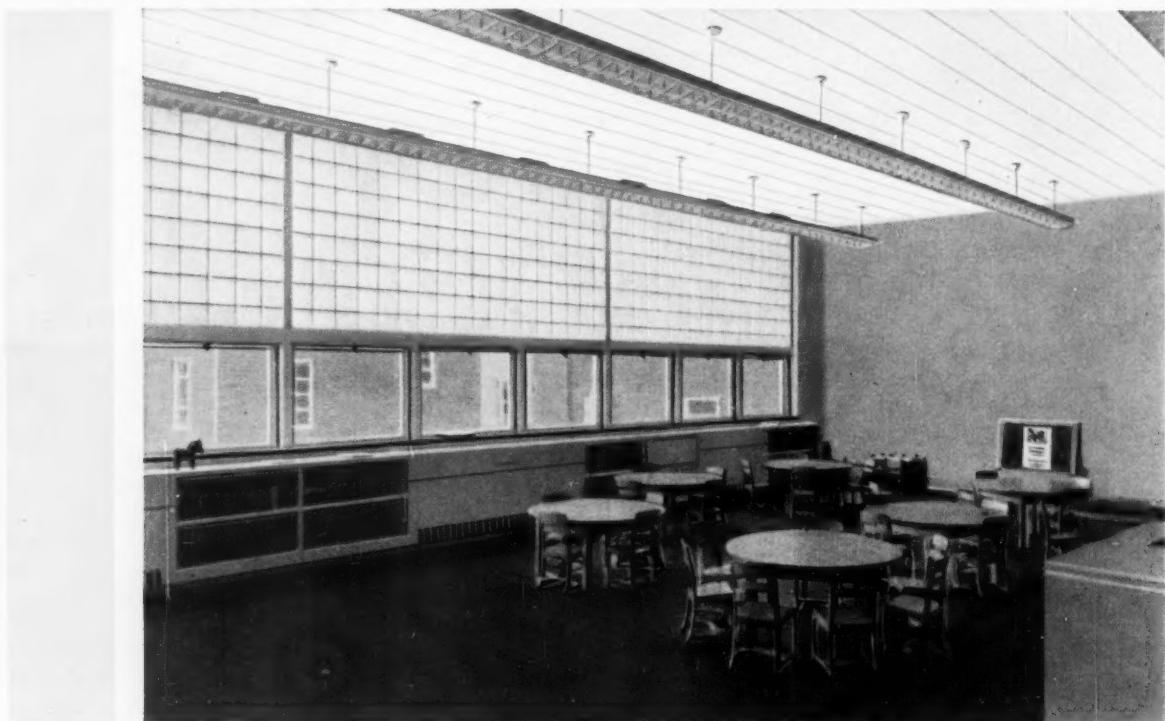
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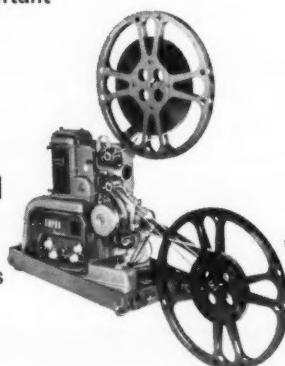
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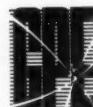
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After Delta engineers had created what they considered the finest metal cutting lathe ever built for school shop use, they asked school men for their verdict. Delta lathes were tested in actual use for many months in busy school shops. In every case, instructors and students alike were enthusiastic!

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DELTA QUALITY POWER TOOLS

Another Product of **Rockwell**

DELTA QUALITY COSTS NO MORE

Delta Power Tool Division, Rockwell Manufacturing Co.

4300 N. Lexington Ave., Pittsburgh 8, Pa.

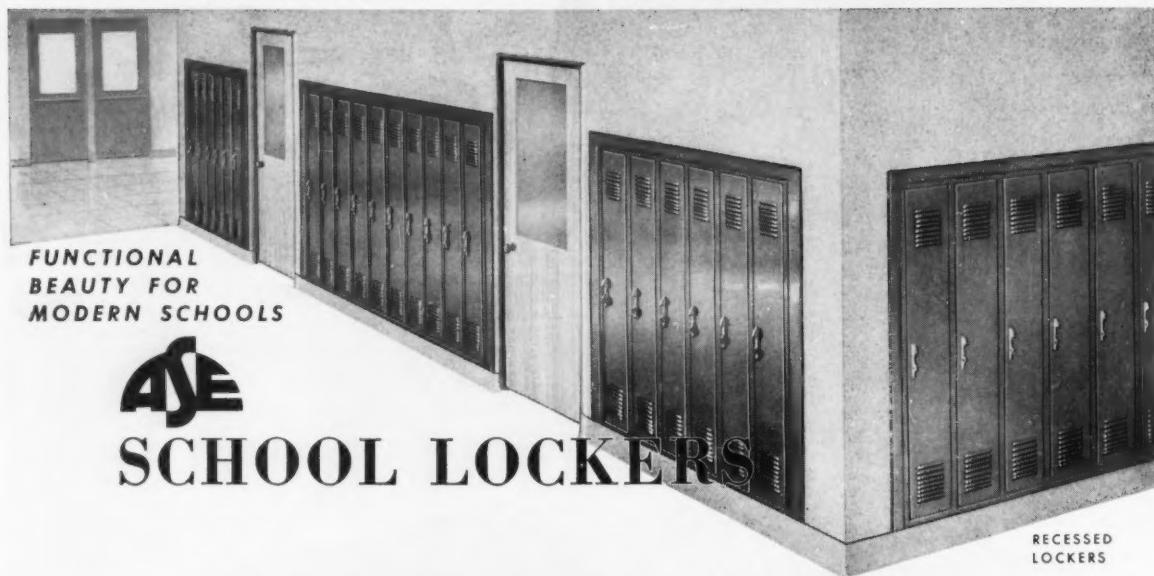
- Please send me name of nearest Delta Dealer who has the new Delta 11" Metal Cutting Lathe under power.
 Please send me complete catalog information on new Delta 11" Metal Cutting Lathe.

Name _____ Title _____

School _____

Address _____

City _____ County _____ State _____



SCHOOL LOCKERS

SERVICEABLE UNITS FOR HALLS, CLASSROOMS AND LOCKER ROOMS



SINGLE TIER
LOCKERS



DOUBLE TIER
LOCKERS



BOX
LOCKERS

ASE Lockers present a fine, modern appearance and afford the most efficient, functional service. Have smartly designed handles that lift easily with a single finger and have pre-locking advantage. The locker doors close silently . . . Resilient rubber bumpers are located at points of contact. Styled louvres provide adequate ventilation. Hinges are concealed with no projecting surfaces to catch clothing.

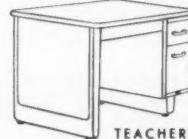
ASE Lockers are carefully cleaned and treated for the finest baked enamel finishes in Dawn Gray, Green and Sand Tan.

ASE engineers will gladly work with you or your architect. Write for illustrated Locker Bulletin.

other ASE quality steel furniture for school use



PRINCIPAL'S
DESK



TEACHER'S DESK



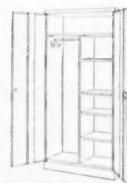
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COMBINATION
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ALL-STEEL EQUIPMENT INC., Aurora, Illinois

Write for complete information. There's an ASE dealer near you.





All Ford School Bus Chassis meet the rigid safety standards set by the National Education Association.



"A" IN SAFETY

Ford chassis are tested under conditions far more hazardous than those encountered in normal use. This 30-degree-grade "holding" test, for emergency braking, is one of many safety tests which must be passed.



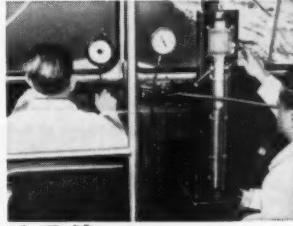
"A" IN RELIABILITY

Tests like this obstacle course must prove that vital chassis parts can take extreme punishment. Such features as safety-wrapped front springs and new deeper frames contribute to "A" in Reliability for Ford buses.



"A" IN COMFORT

Both endurance and comfort are proved on this stretch of cobblestone road—much rougher than the usual. Wide-tread, set-back front axles and wide-span progressive springs show their worth in this test.



"A" IN ECONOMY

Scientific fuel-metering equipment proves just how little fuel it takes to operate Ford's modern, Short Stroke engines. Remember to look for "short-stroke"—to Look Under the Hood—before you buy any bus this year.

'55 Ford School Bus Safety Chassis leads the class in performance and gas savings. Only Ford offers Short Stroke design in every engine!

This year, the industry is beginning to follow Ford's lead to modern, short-stroke V-8 engines. Shorter stroke prolongs piston ring life up to 53%. You get more *usable* power. You can save up to 1 gallon of gas in 7.

Before you buy *any* bus, *LOOK UNDER THE HOOD* . . . make sure you get money-saving short-stroke power. (If engine "stroke" is *as short* or *shorter* than engine "bore," you've got a modern short-stroke engine.)

Your Ford Dealer gives you a choice of 5 chassis, 4 wheelbases (capacities to 61 pupils). He can help you choose the right body, too.

**FORD Division of FORD MOTOR COMPANY
P.O. Box 658, Dearborn, Michigan**

Please send me your latest Free literature on the new Ford School Bus Safety Chassis for '55.

NAME _____

ADDRESS _____

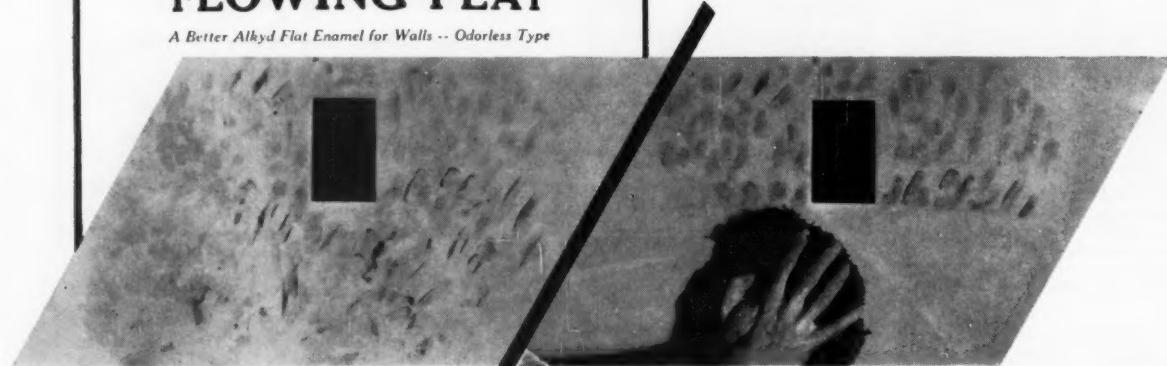
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STATE _____
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**WILL THE WALL PAINT
YOU USE PASS THE
HAND PRINT TEST?**



This one will! Hand prints, ink, crayon, pencil, most antiseptics and other stubborn stains wash right off walls painted with Pratt & Lambert New Lyt-all Flowing Flat. This means REAL MAINTENANCE ECONOMY! You'll like its freedom from objectionable odor, too, for it means normal activities can continue even while painting is in progress. Choose Pratt & Lambert New Lyt-all Flowing Flat in any of 109 exclusive job-tested colors next time you have walls to paint.



This is the hand print test! See how easily hand prints wash off walls painted with Pratt & Lambert New Lyt-all Flowing Flat.

Other stubborn stains wash off just as easily. Repeated washings will not harm the velvet finish and lovely colors of this self-priming alkyd flat enamel.



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THE SCHOOL EXECUTIVE

FOR SCHOOLS...HOSPITALS...HOTELS



WEATHER-TIGHT!

Extruded elastomeric vinyl weatherstripping maintains everlasting tight seal against rain, wind and dust. Stripping is not exposed when window is closed.

SUPER-SMOOTH OPERATION!

Tilted, center-sill "Roto-Flex" operator built by General Bronze. Grasps conveniently... opens and closes windows with utmost ease. No tension on operator after closing.



ALWINTITE

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by GENERAL BRONZE CORPORATION

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NOW...
you can get
**ALUMINUM
AWNING
WINDOWS**

in STOCK SIZES

from America's foremost
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GENERAL BRONZE

Architects everywhere have long recognized the superiority of General Bronze's custom-fabricated aluminum windows for schools and hospitals.

Now, General Bronze offers its **ALWINTITE** line of aluminum awning windows in *stock sizes* for schools, hospitals, hotels, apartments and commercial buildings.

These stock-size windows offer all the advantages of superior design, quality materials, and precision workmanship for which General Bronze has been famous—yet they are priced to meet competition. For complete information see our catalog in Sweet's or write for free copy. Address Dept. SE-554.

Coolite keeps brighter rooms Cooler

THREE TYPES OF MISSISSIPPI GLASS SOLVE THREE SEPARATE PROBLEMS IN MODERN FLORIDA HIGH SCHOOL

Although solar heat can make interiors extremely uncomfortable, Coolite helps keep this Booker High School, Sarasota, Florida, both brighter and cooler. In this modern structure, three types of this amazing Mississippi, blue-green, translucent glass have been used.

Coolite, Heat Absorbing Glass, floods classrooms with softly tinted daylight for easier seeing without undue solar warmth to distract pupils. The brighter rooms seems larger, friendlier. Students see better, feel better, work better, under Coolite.

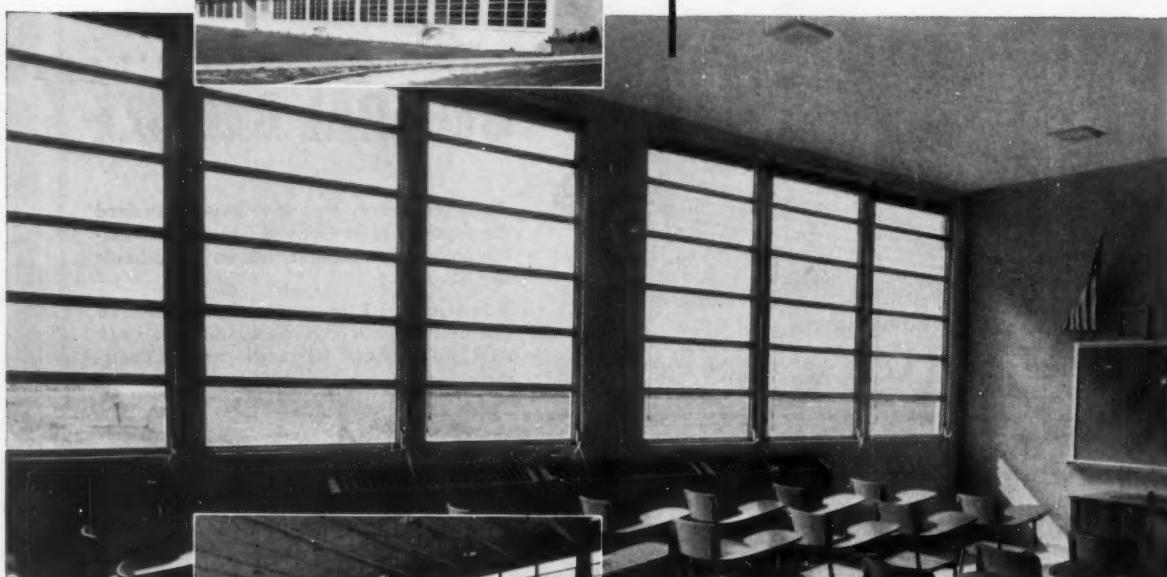
In those areas of the school where glare as well as heat presents a problem, Coolite Heat Absorbing and Glare Reducing Glass is used for greater daylight control and comfort.

Coolite, Heat Absorbing Wire Glass (Fire Retardant No. 32) is used in the gymnasium . . . provides maximum illumination . . . retards sun heat . . . helps bottle up fire. Polished Wire Glass is also used throughout the building in vulnerable locations for fire and breakage protection.

Consider Coolite for your new school. Give your classrooms greater comfort and "eye-easy" daylighting. Specify glass by Mississippi. Available in a wide variety of patterns and surface finishes for every need . . . every budget.



Architect: Sellew, Ryder & Gremli Associates, Sarasota, Florida.
Contractor: Chester Mabry Construction Co., Tampa, Florida.



Glass installed by Ray's Paint & Mirror Co., Sarasota, Florida.

Write today for free catalog, "Better Daylighting For Schools". Address Dept. 16.



MISSISSIPPI Glass COMPANY

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NEW YORK • CHICAGO



SAINT LOUIS 7, MO.
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WORLD'S LARGEST MANUFACTURER OF ROLLED, FIGURED AND WIRED GLASS



Now! Johnson's Heavy Duty Hard-Gloss with new "Strip-Easy" Formula!

World's toughest self-polishing floor finish now tougher than ever—yet comes off like magic when stripping time comes!

This, we believe, is the finest self-polishing floor finish ever developed.

A hard bright finish that wears like iron, won't trap dirt . . . slip-retardant . . . won't water streak or spot . . . stands up under repeated damp-mopping.

Yet it comes off like magic when stripping is necessary. Just hit it with a solution of Johnson's Wax-Strip Floor Cleaner and water.

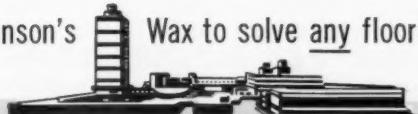
Get longer wear with the hard work taken out of both application and removal!

Order Johnson's Heavy Duty Hard-Gloss with new "Strip-Easy" Formula—today!

For full information, prices and/or advice on specific floor problems from the Johnson's Wax Free Floor Consultant Service, consult your local distributor or write to S. C. Johnson & Son, Inc., Racine, Wis.

Products and services from Johnson's

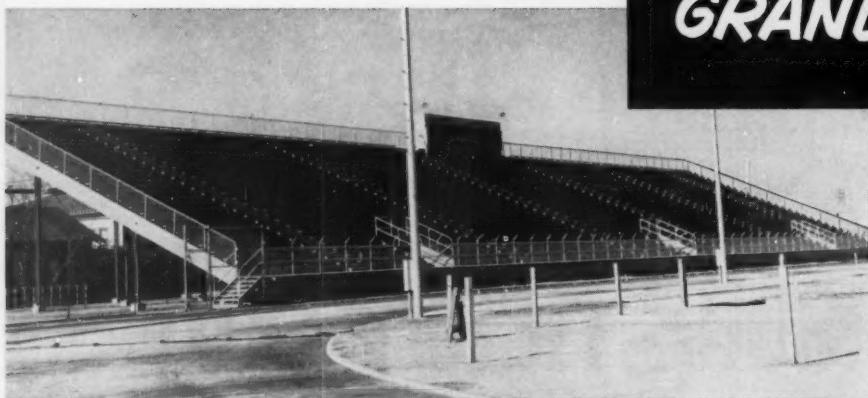
Wax to solve any floor problem



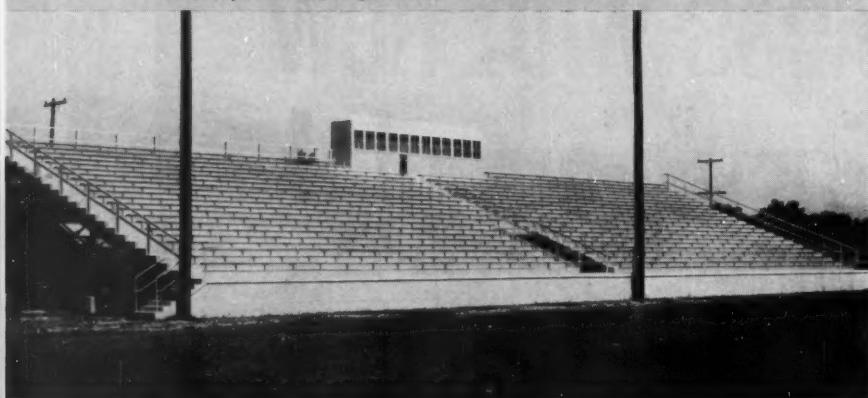
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LONG BEACH, CALIFORNIA. David Starr Jordan High School; 5,000 seats. Depth 28 rows, length 306 ft.



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**HIGH
SCHOOLS**
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North, South, East and West throughout the country, Pittsburgh-Des Moines Steel-Deck Grandstands are at the heart of high school outdoor events. From football to Commencement, these adaptable, handsome stands serve comfort and security throughout the year. Unit-constructed, permanent, low in first cost and low in upkeep, P-DM Grandstands—first choice of progressive school districts—offer truly exceptional value. May we give you the details?

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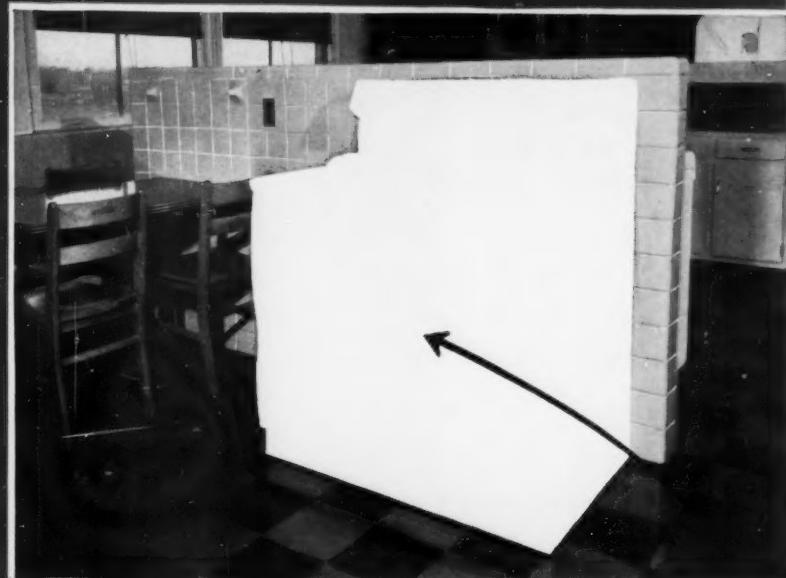
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What's missing from this Lab?



ELECTRIC Ranges to teach modern cooking!

To be complete, your curriculum must anticipate student needs—and today the need is for *Electric Range* cooking instruction. The number of *Electric Ranges* in American homes has more than trebled during the past 9 years—more than twelve million are in use. Homemakers have learned that this type of range offers clean cooking as well as ease of operation—and a cool kitchen, too. Obviously, students must learn to use an *Electric Range*—and to teach its use, you must have modern *Electric Ranges* in your school's home economics laboratory.

Information on how to provide your school with modern, automatic *Electric Ranges* may be easily obtained from your electric light and power company or electric appliance dealer.

Floor Plan Booklet—This booklet can help you, whether you're installing new ranges, remodeling the school's home economics laboratory, or planning a new school building. It serves to crystallize

your thinking on what your own laboratory should include, provides ideas on layout and arrangement based on what has been done in other schools. Mail the coupon for your FREE copy!



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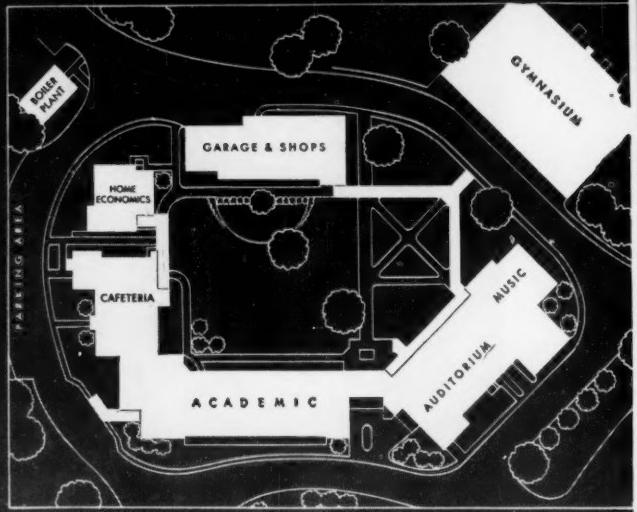
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"PLANNING THE HOME ECONOMICS
LABORATORY."

We have (total number) _____ students in our
home economics classes.

Your name.....
Name of school.....
Street & No.....
City.....Zone.....State.....



HIGH SCHOOL, CLAYTON, MO.

Architects and Engineers
WM. B. ITTNER, INC., St. Louis
Heating Contractor
Mc NAMARA EQUIPMENT CO.

*Clayton, Mo., suburb of St. Louis
 is justly proud of its new award
 winning High School which has
 been cited as "an outstanding
 example of contemporary,
 functional school architecture."*

ACADEMIC BUILDING left, is 3 stories high



One of the students, teachers and

taxpayers best friends

...it maintains comfortable, healthy temperatures in every room, each with its own independent control . . . prevents OVER-heating and insures utmost fuel economy . . . users report dependable operation after 25 to 50 years of low cost operating and maintenance service —

POWERS

Time tested and proven dependable
Temperature Control

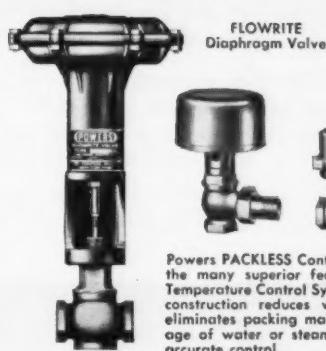
INSTALLED IN THE CLAYTON, MO., NEW CAMPUS TYPE HIGH SCHOOL

Any of the six buildings here can be occupied at night without operating the entire school plant. Covered walkways connect the buildings which being separated isolate noise from gym, band and shops. Water heaters and shower baths too, are Powers controlled also Whirlpool arm-leg bath in gym.



English Literature Classroom

You too can solve your Temperature Control problems with Powers . . . one dependable source, one responsibility. Consult Powers on all temperature control problems. Our more than 60 years of experience will save time and help you get the right control for your requirements.



FLOWRITE
Diaphragm Valve



Powers PACKLESS Control Valves — one of the many superior features of a Powers Temperature Control System. Their duo-seal construction reduces valve stem friction, eliminates packing maintenance and leakage of water or steam and gives smooth accurate control.



Above: Powers LIMITEM Low Limit Thermostat. A precision instrument for accurate control of Unit Ventilator discharge temperatures.



POWERSTROKE
Damper Operator



Powers Room Thermostat is truly gradual acting and gives smooth control of valves and dampers.

(c21)



THE POWERS REGULATOR COMPANY

SKOKIE, ILLINOIS | Offices in chief cities in U.S.A., Canada and Mexico

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S I C O SYSTEM
OF CAFETERIA SEATING



CONVERTS
ANY
ROOM
INTO A
LUNCHROOM
—IN
MINUTES!

SICO tables are 7 times as fast to fold or unfold as ordinary folding tables and chairs. One person can set up a lunchroom . . . or change it back into a gym floor, dance floor or class room . . . within minutes!

As a result, SICO tables quickly add "another room" to your school without adding a penny in new construction.

SICO tables keep aisles safe and clear. It is possible to seat 100% more students in some cafeterias!

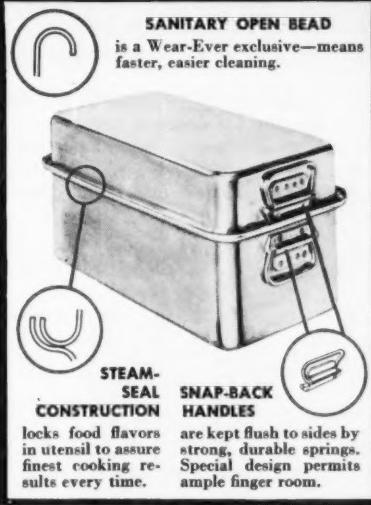
"Floating Fold," a SICO exclusive, folds and unfolds the table gently without scraping floors. There are no clasps or hinges to catch dirt, clothing or fingers. Children or elderly persons can and do operate SICO tables in many of the most modern and cost-conscious schools in the country.

SICO tables are available in a wide variety of models and price tags. Whatever your choice, you will find the cost is surprisingly low. For all the facts on how SICO can help you, see your SICO distributor or write to

S I C O

Seating INCORPORATED
6045 Pillsbury Ave. S., Minneapolis 19, Minn.

NOW... perfect "OVEN FIT" in these new roast and bake pans by WEAR-EVER



Today's newest development in cooking efficiency

They're here . . . seven amazing new pans designed especially for your modern restaurant range. Pans that for the first time bring you a *flexibility* that lets you cook more foods faster, in less space. Result: fuel saved, time saved, *money* saved.

You can team them up into 14 possible cooking combinations. "Twin" unit pans fit oven side-by-side; have interchangeable tops for covered or open roasting. Four

full-oven pans come in sheet, bake and roast sizes—adapt perfectly to your cooking wants.

Special durable, even-heating alloy

These pans are built to last. Wear-Ever's lightweight, dent-resistant hard wrought alloy assures long life—and superior cooking results. Your whole pan does the cooking in even-heating Wear-Ever aluminum. Hot spots are eliminated.

FREE FOLDER ON REQUEST—SEND TODAY

WEAR-EVER
Aluminum
UTENSILS

THE ALUMINUM COOKING UTENSIL CO., INC.,
WEAR-EVER BLDG., NEW KENSINGTON, PA.

SEE THESE NEW PANS ON DISPLAY • Booths 607-8-9-10 • National Restaurant Show, Chicago, Ill.

The Aluminum Cooking Utensil Company, Inc.
6604 Wear-Ever Bldg., New Kensington, Pa.

GENTLEMEN: I'd like to know more about your new "oven-fit" pans.
 Send me your catalog. Have your representative see me.

NAME

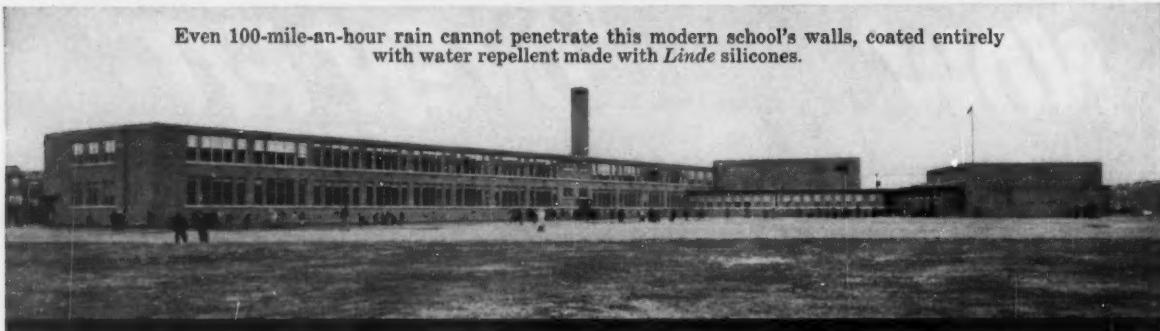
TITLE

Fill in, clip to your letterhead and mail today.

NEW ITEM! Wear-Ever's new Nickel Scouring Cloth. Won't scratch, won't mar, far outlasts ordinary scouring cloths. At your dealer's.



Even 100-mile-an-hour rain cannot penetrate this modern school's walls, coated entirely with water repellent made with *Linde* silicones.



Huge school system approves water repellents made with LINDE silicones for above-grade masonry

"Invisible Raincoat" Protects City's Schools

In one of the nation's largest cities, the above-grade exterior brick and concrete of school buildings is being coated with water repellents made with LINDE Silicones.

More than thirty of the school system's close to 300 older buildings have already been treated. New schools are being treated as erected. To date, 500,000 sq. ft. are done.

Board of Education maintenance engineers say that rain leaks and seepage that once caused costly

damage to interior plaster, paint, and woodwork, have been eliminated.

Masonry spalling and cracking caused by water absorption and freezing have been completely stopped. Unsightly efflorescence is a thing of the past. And buildings stay cleaner because rain simply washes dirt down the walls.

Why you, too, should specify "Linde" silicones

Above-grade masonry water repellents made with LINDE silicones mean . . . longer life for concrete and brick . . . reduced maintenance inside and out . . . better appearance.

More and more architects are specifying masonry water repellents made with LINDE silicones. They alone provide all these advantages:

- **Clear and Invisible**
Cause no change in color, no shine.
 - **One Coat**
For complete water repellency.
 - **Penetrating**
Reach correct depth for maximum effectiveness.
 - **No Seepage**
Even rain driven 100 miles an hour runs right off, yet . . .
 - **Non-Sealing and Pressure Resistant**
Permits masonry to "breathe."
 - **Fast-Working**
Dry in 3 hours to complete water repellency.
 - **Applicable the Year Round**
Can be applied even at 15 degrees Fahrenheit.
 - **Long Lasting**
Tests indicate dependable service for 10 years!
 - **Easy to Apply**
Either low-pressure spray or brush.
 - **Can Be Painted Over**
With oil-base paints.
- **CALL OR WRITE LINDE**—for the full story on water repellents made with LINDE silicones for above-grade masonry, and a list of representative suppliers. Address Dept. G-4.



Leaks were serious in this older school, so brick was repointed, then coated with silicone repellent. Result: No more problems from moisture.

FOR SILICONES LOOK TO



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When Student Safety is Your Responsibility



You're sure with **ward SAFEGUARD**

Your new **ward** catalog is designed to show you how every safety and economy feature necessary for student protection and budget security is built into every **ward** SAFEGUARD School Bus. Your catalog is sent by return Air Mail. Write: **ward** Body Works, Dept. S-2, 4201 South Congress, Austin, Texas.



**Manufactured at plants in Austin,
Texas and Conway, Arkansas,
and sold throughout the world!**

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BODY WORKS



You Just Saved Money

... This is TUF-FLEX Glass

Figure how much you'd save if you cut down your bills for broken windows.

It's a wise investment to glaze *all* windows in vulnerable spots with *Tuf-flex** Tempered Plate Glass.

Tuf-flex is three to five times stronger than regular plate glass. In fact, a ½-lb. steel ball, dropped ten feet on a piece of ¼"-thick *Tuf-flex*, bounces right off. Quarter-inch *Tuf-flex* is made of L·O·F *twin-ground Parallel-O-Plate* Glass, the clearest, finest, most distortion-free plate glass made in America.

For complete information, contact your L·O·F Distributor, or write to Libbey·Owens·Ford Glass Company, 608 Madison Avenue, Toledo 3, Ohio.

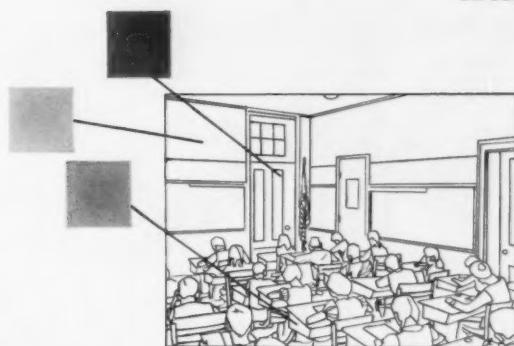
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TUF-FLEX tempered plate glass



LIBBEY·OWENS·FORD a Great Name in Glass

**By using
the right colors
in the right places...**



DU PONT COLOR CONDITIONING



**makes
teaching
and
learning
easier**

IN HUNDREDS AND HUNDREDS of school buildings all over the country, Du Pont Color Conditioning is increasing the comfort and efficiency of students and teachers alike. This scientific painting plan utilizes carefully selected colors to diffuse light, smooth out glare and assure uni-

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Du Pont Color Conditioning costs no more than ordinary painting. And new paint formulas make

Color Conditioning Paints *odorless* during application! Now you can put this scientific painting plan to work for you without the interruption of normal routine so often caused by annoying "painty" smells! To discover the many ways Du Pont Color Conditioning can pay off for you, mail coupon today!

FREE 32-PAGE BOOK! Find out how Color Conditioning can meet the specific needs of your building interiors. Get this book, illustrated in full color. Mail the coupon today!

Du Pont Color Conditioning Paints Are Now Odorless

Now you can paint busy areas
without interrupting normal routine



Better Things for Better Living . . . through Chemistry

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Gentlemen:
Please send me, at no extra cost, your 32-page book,
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Title _____

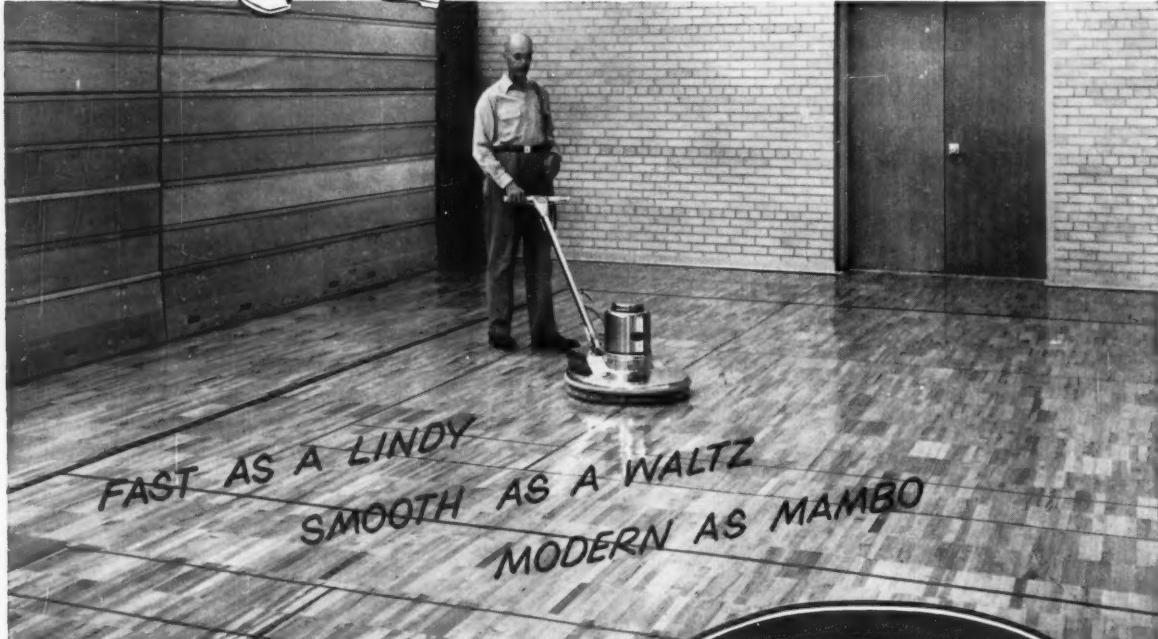
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City and State _____





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Use An
ADVANCE**



This Speedboy Deluxe Model 24 is the world's fastest buffering machine. Like all Speedboys, it features the revolutionary Silent-Flo drive providing years of grease-free, maintenance-free service. Perfect balance for effortless control gives higher work rate with less operator fatigue. Write for full details!



Manufacturers for over a quarter century of a complete line of outstanding floor and rug maintenance machines.

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to School Administrators

from ALBERT J. NESBITT
President, John J. Nesbitt, Inc.

Let me
show you
how we can
reduce
your school
heating and
ventilating costs





This latest Nesbitt contribution to
schoolhouse heating and ventilating economy
is the **Series Hot Water Wind-o-line System** . . .

You've heard of many forward moves by our company in the past—culminating in Nesbitt Syncretizer with Wind-o-line. Now we present one of the most transforming innovations yet developed by Nesbitt engineers—the use of Wind-o-line Radiation in a *Series Hot Water System*—which permits the grouping of several classrooms (or an entire wing of a building) in separate circuits . . . in which the Wind-o-line is *the only supply and return piping required*. This ingenious method (applicable when forced hot water is the heating medium) is particularly designed to match today's trends in heating and construction. It provides improved individual room control of heating and ventilating; offers all weather protection against cold window downdraft; and at the same time saves many dollars of installation cost.

Eliminates...
PIPE TRENCHES

Reduces...
SIZE OF PIPES
SIZE OF PUMPS
INSTALLATION COSTS



**Let's look at some of the
savings that are possible with the
Nesbitt Series Wind-o-line System**

In the first place, you save the cost of pipe trenches (at \$8 to \$12 a foot) running around the perimeter of the building.

These are now unnecessary, because the Wind-o-line

piping takes the place of the usual mains. In addition, you save the cost of these mains. Your piping problem is simplified. You cut pipe-covering costs by one-third to one-half (Wind-o-line piping needs no insulation).

Furthermore, since the *Series Wind-o-line System* circulates 50% less water than most other systems, you use smaller pipes and pumps.

Beyond all these savings, you save tremendously on installation labor.

So much of the *Series Wind-o-line System* comes already fabricated, with fittings pre-assembled, that hook-up is amazingly fast.

Finally, this one system provides its own overnight temperature protection. No additional investment for such protection is necessary.

**Besides saving you money,
the Series Wind-o-line System increases
classroom comfort and protection!**

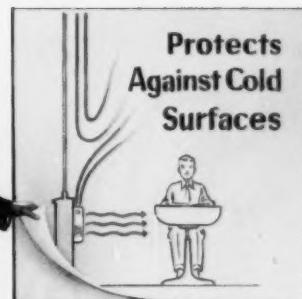
This system is ideally suited for modern classrooms with large banks of windows. In such rooms, and in those with cold exposed walls, perfect comfort for the occupants cannot be achieved simply by maintaining the optimum room temperature.

Downdraft from cold walls and windows and the radiant heat loss from occupants to cold surfaces are problems calling for special, separate handling.

Nesbitt Wind-o-line Radiation solves these problems logically and effectively by releasing a moderate gravity heat continuously along the window sill when outdoor temperatures make protection necessary. The air from the Wind-o-line mixes with and warms the downdraft, and diverts it upward over the heads of the occupants. Radiant heat from the Wind-o-line enclosure helps to offset the bodily heat loss to cold wall and window surfaces.

With the Series Wind-o-line System, water temperature is varied in accordance with outdoor temperature. As the outside temperature falls, the temperature of the water increases so that protection against the effects of window downdraft and cold surfaces is related directly to their intensity. In addition, individual room control of temperature and ventilation by the Syncritizer is greatly facilitated.

Without other investment in auxiliary convectors or special control equipment the gravity heating capacity of the Series System is more than sufficient to maintain satisfactory overnight classroom temperatures. This is a great boon to daytime comfort and a very considerable saving in equipment costs.



Reduces
School Mechanical System
Costs

Nesbitt
SERIES WIND-O-LINE SYSTEM
for Forced Hot Water Heating

Increases
Classroom Comfort and
Protection



In such brief space I can only sum up in this way: **You pay less, you get more, with the Nesbitt Wind-o-line Series Hot Water System.**

And now, I'd like to show you some other steps we have taken to increase the quality of our schoolhouse heating and ventilating equipment.

Please see next page.

Three more important ways
in which we have
upgraded

(at no extra cost to you)

Nesbitt Schoolhouse Equipment

NEW HARDDTOP for Nesbitt Storage Cabinets

Durable laminated plastic resists cracking, chipping, and abrasion.
Crayon and ink can be easily wiped off with a damp cloth.
Available in five attractive colors, the plastic Hardtop adds
new beauty to Nesbitt storage cabinet ensembles.

NEW COLORS for Nesbitt Classroom Equipment

Nesbitt Syncretizers, Storage Cabinets, wall-hung Wind-o-line
and Sill-line Radiation are available in six beautiful new colors
developed by Nesbitt especially for classroom use.

NEW AIR INTAKE for Thin Wall Construction

The new Nesbitt 2 $\frac{1}{8}$ "-deep wall box is designed for prefabricated
wall construction, but has sufficient load-bearing strength
to permit its use in masonry walls without a lintel.
New vertical louvre design results in maximum elimination
of air-borne water within this shallow depth.

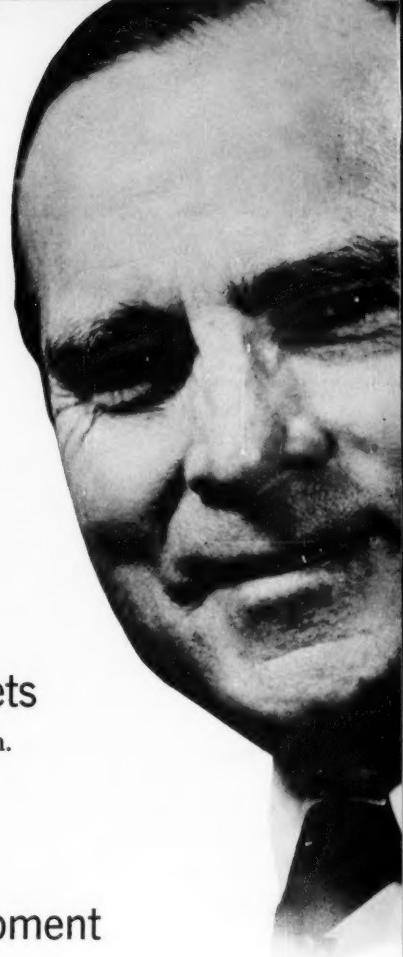
**Thank you for your
time and courtesy**

Naturally you are interested in getting more for your
school-building dollar. Why not have a nearby Nesbitt or
American Blower representative give you the complete story
and answer your questions. Or, you may write to me direct.

ALBERT J. NESBITT

Nesbitt

Made and Sold by John J. Nesbitt, Inc., Philadelphia 36, Pa.
Sold also by American Blower Corporation





Flexible all-day "block-of-time" program permits students of administration to plan group field research projects

"Block-of-Time" Program

for prospective administrators at the University of Texas gives a group of students the opportunity to work together all day, all summer in seminars, in schools and in local community surveys

by KENNETH E. McINTYRE

STUDENTS OF SCHOOL administration can usually verbalize convincingly on the final exam, but only later—sometimes too late—do they learn the full meaning of what they consider the professor's clichés.

Only when he has had actual experience in the administrator's job can the student understand the theories he learned by rote. However, the usual organization of courses for prospective administrators does not permit this kind of experience. In most higher education, the learning day is divided into subject units, so that many times the bell rings just when the student is beginning to learn something. This makes it difficult to provide situa-

tions in which the student can have the kind of learning experience which will help him to meet the problems of administration.

The University of Texas has established a course called "Foundations of Education" which attempts to solve this problem by a "block-of-time" organization, in which students work together all day without interruption of activities by a rigid schedule of classes. This flexibility of arrangement makes for a more practical course.

With the assistance of the Southwestern Cooperative Program in Educational Administration, the program has been conducted for the past three summers at the University of



Panel of four wives—two administrators' wives and two students' wives—discusses the role of the administrator's wife with students and their wives

Dr. McIntyre is associate professor of educational administration at the University of Texas.

Texas. The chief purpose of the experiment is to give the student experience in leadership situations in the pre-service period.

Every major administrative skill needed by a superintendent or principal is practiced by the student. He has opportunities to serve as chairman of different types of meetings. He develops a schedule for an actual school, and works with budgets, annual reports, and internal accounting systems. In some cases, only a limited number of students have an opportunity for a certain

the group decides to assemble at night, to attend a school board meeting for example, then the schedule that day or the following morning is adjusted accordingly.

An annual highlight of the course is a three-day community survey. It seems evident enough that a school administrator must know his community if he would presume to develop a suitable program.

After an exhaustive preliminary study of such factors as census data, economics, geography and early history of the community, groups of

characteristic of all of the people in a community. They know that maintaining effective two-way communication with all the people is not a simple matter of placing an article in the local newspaper and giving a speech to the Rotary Club.

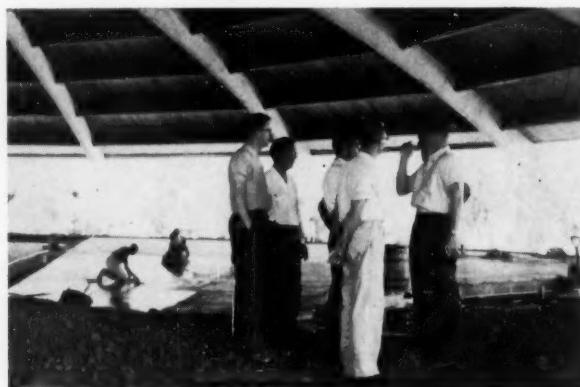
Need first-hand experience to understand communities

Prospective school administrators or teachers can learn the subtle ways of communities only through first-hand experience.

Probably the greatest amount of



Architect William W. Caudill demonstrates principles of school plant planning to group



Students inspect auditorium under construction at Texas A&M Consolidated School on field trip with architect

type of experience, but the others help to plan it, and they observe and evaluate it.

In this category are such experiences as conducting a post-visitation supervisory conference after the entire group has observed the teaching and interviewing practice teachers for employment. These activities are done not in isolation but in relationship with other elements in the total complex of a school administrator's functions, so that placing figures on the budget form, for example, is seen as only a minor step in a process that has a bearing on the total program of education.

Many of the most valuable experiences of the Foundations course take place outside the classroom. Field trips and other off-campus activities are possible because there are no conflicts with other classes. When

students move in for the on-the-spot phase of the survey. The three days that are spent in the community are devoted largely to talking with people about important issues concerning education. Homes in the community are sampled in such a way that every student has an opportunity to visit with families representing the various socio-economic levels and ethnic groups, both rural and urban. In the 1954 survey the entire group studied the community of Bryan, Texas and received valuable assistance from members of the faculty of nearby Texas A & M College.

At the conclusion of the survey, most of the participants are aware for the first time of the meaning and importance of such terms as social class and power structure.

They realize that their own middle-class values and mores are not

time is devoted to total group or resource committee work. Here is where some valuable lessons are learned in cooperative problem-solving, in group processes, in action research procedures, and in getting along with people. Here is where most of the actual work is done, other than the individual study that grows out of the group sessions.

Case method develops balanced judgment

The case method has been used a number of times in order to develop in students an understanding of the complexity of administrative problems and the need for balanced judgments in the process of decision-making. This method of instruction involves the student in situations in which he actually experiences the problems of an administrator. The

case method seems especially adaptable to a block-of-time type of program.

Although group operations are the heart of the Foundations undertaking, individual development is not neglected. Through an arrangement worked out with the Testing and Guidance Bureau of The University of Texas, every student takes a comprehensive battery of tests and then has at least one conference with a counselor who assists in interpreting the test data.

Because of the flexibility of the

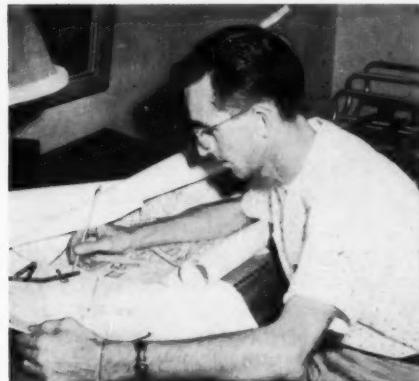
possible the appearance of authorities at their convenience. Whenever a nationally-known figure visits Austin, the group invites him to speak if he has something to offer prospective school administrators.

Program is realistic, but it's not the real thing

Not all of the problems connected with Foundations in Educational Administration have been solved. There is no substitute for on-the-job learning, with all the responsibilities, headaches, and kudos that are the

A third unsolved problem also deals directly with lack of money. An operation of this type is comparatively costly, and in the past the burden of supporting it has been borne jointly by The University of Texas and the Southwestern Cooperative Program in Educational Administration.

Henceforth, the University will have to "go it alone," since the CPEA's subventions during the first three years were intended only to stimulate the enterprise during its infancy. This will necessitate attract-



Student chairman of community survey lists socio-economic areas for sampling



Three students review plans for interviewing in the homes of Bryan, Texas, during community survey which was one of summer's projects

schedule, students can participate in a special reading improvement program for graduate students. The Department of Speech assists in projects aimed at speech improvement in situations commonly encountered by school administrators. The Foundations staff members, and other University faculty members, devote considerable time to individual conferences concerning personal plans and problems.

However, the old-fashioned lecture still has an honored place in the scheme of things. It is used especially when the group needs an "eye opener," to stimulate interest in a subject and to open new avenues of thought. Usually followed by a group discussion, it affords students an opportunity to develop appetites for new subjects. Here again the flexibility of the daily schedule makes

school administrator's lot. We think that we have come a long way toward realism with the next-best thing—but it is still next-best. As a preparation for an internship or for some other type of supervised in-service education, it would seem to have great possibilities.

A second shortcoming of the program has been the lack of a follow-up after the summer is over. Although we keep in touch with the products of the program, and with their administrators, we have not found a way to build on the foundations that we have attempted to lay. Lack of money and staff time is a convenient excuse, but it would be highly desirable to find a way to work more than just incidentally with these young people when they get into administrative positions, as many of them already have.

ing capable young teachers without the aid of the small work-fellowships that have been granted in the past, and it will mean that other ways will have to be found to defray costs (approximately \$800) of class-sponsored trips and other activities like the community surveys. Another major need at present is to acquaint school administrators throughout the state with the program because their support is essential.

Gives students valuable experience

We think that we have made a promising beginning in our attempt to give young administrators-to-be a type of experience that will count. We trust that the results will show up in the lives of people in Texas communities and elsewhere in the years to come.

The Rural Administrator Faces a Challenge

Though centralized schools offer bigger management problems, he must also work to improve the instructional program

by RUTH M. NORTHWAY

THE PRESENT TREND toward centralization of small schools into larger districts has considerably improved educational opportunities for rural youth. Beautiful, well-equipped buildings offer greater facilities. Larger enrollments indicate the number of pupils served. The increased size of the educational staffs indicates the broadened scope of a program which was once limited to the traditional three R's. Pupils, teachers and buildings are essential parts of an educational program, but without leadership in the development of a good instructional plan, the educational opportunity can still be very limited. It is the administrator's task to assume the initiative in planning a strong comprehensive program.

Administrative duties of school principals are numerous and time-consuming, and in many central schools problems of management such as budget-making, personnel selection and building programs tax the administrator's time and energy to the point where he can take little

leadership in the improvement of the instructional program. This means that a very important part of the total program is neglected.

A good solution to this problem is to have on the staff a person trained as a curriculum specialist. This member of the staff should be given the time and responsibility to develop an instructional program consistent with current educational thought.

Specialist might use recent research

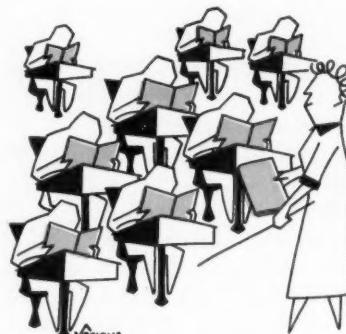
The curriculum specialist might work on the elaboration of a philosophy based on recent research in child development. He could also discover ways to improve opportunities for practicing democratic procedure and investigate the adoption of methods of evaluation which will indicate growth in attitudes as well as textbook knowledge.

Using the basic ideas thus developed, the curriculum specialist can lead the faculty in the development of a local curriculum which is sequentially strong and based on defensible principles of child development. In this way the instructional program dominated by the single textbook will give way to a curriculum based on children's needs and interests.

Through individual conferences, group discussions, the use of con-

sultant service, the provision of current educational literature, demonstration, observation and intervisitation, the curriculum specialist can gradually help teachers to adapt their methods to the individual needs of their pupils.

Further, the full-time curriculum specialist will also be able to introduce into the program such activities as community participation through the use of local resources and pro-



Mass instruction, single textbook system don't satisfy individual needs

jects on which the school and community can work together. This will strengthen community interest and understanding of the educational program.

Another duty of the administrator is to establish good staff morale. Where there are unhappy, disgruntled teachers, the total program suffers. The busy administrator who

Mrs. Northway is elementary principal of the Honeoye Falls Central School, Honeoye Falls, New York.

finds the time to take an interest in the teacher's welfare will be able to maintain strong staff morale.

The administrator should take the lead in working for good salary and job conditions for teachers. He should give faculty members the opportunity to grow and advance, and should let them know when they are doing a good job. He should consult with teachers before action is taken which will affect them and widen participation in policy formation, making provision for some of the necessary meetings to be held on released time.

The administrator should initiate the formation of a teacher welfare



Where there are disgruntled, unhappy teachers, the whole program suffers

committee and promote from the ranks where feasible. He should keep teachers supplied with up-to-date materials and provide social occasions which will help the group to know each other, increasing the friendliness of one grade level with the other.

A weakness that exists in many central school systems is the tendency for individual teachers and separate divisions of the school to evaluate administrative action in terms of their specific situation alone. The administrator must find ways of helping teachers to see the program as a whole and their relation to the total situation, as well as to the various divisions and special areas.

Some administrators do this by the formation of school councils with representation from various levels. These representatives report back to their specific levels and hold discussions which are in turn reported to

the council. They also make provision for the various levels and special areas to present the highlights of their programs to the whole faculty at general faculty meetings and provide mimeographed material outlining the instructional program K-12.

Teachers of the same or different levels hold group meetings to discuss problems of common interest. A common testing program is adopted, showing growth from one level to another. Outside consultants and speakers are invited, and films are shown to illustrate procedures with which the administrator wishes the faculty members to experiment.

Schools cooperate in hiring specialists

Surveys in several central schools show that more can be done to provide special services such as psychological aid, speech correction, dental examination and special classes for the physically or mentally handicapped.

Because of the small number requiring this type of service in the individual schools, it may be necessary to combine with other area schools in order to provide this specialized service. Many schools are now cooperating financially in providing such specialists, who serve the several schools. This is not an ideal situation, but it introduces the service to the local system and gradually the community may recognize that there is need for a full-time specialist.

Administrators have long recog-



Group meetings help teachers see program as a whole, their part in it

nized the need for community acceptance and support if a school program is to operate at maximum efficiency. The maintenance of good public relations has become one of the chief functions of the central school administrator. Practices found successful in establishing good relations include a weekly news-letter to parents sent home by children each Friday, Open House at least once a year and press releases explaining the school program.

Citizens committees promote good relations

Lay participation in planning through a citizens' committee or a parent planning committee, teacher-parent conferences in which the individual parent gets acquainted with the teacher and the program, and joint community projects participated in by the school make good relations.



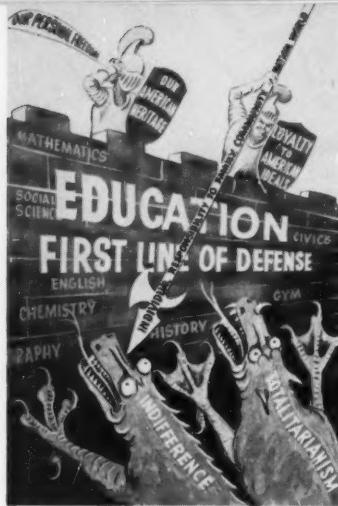
Psychiatric, speech, dental, other special services must be provided

Parent discussion groups carried on as a course in the adult education program and social "mixers" in which staff and parents have an opportunity to meet each other in a social situation are also useful. The maintenance of happy teacher-pupil relationships in the classroom and the use of community talents and experiences to enrich the program are also valuable.

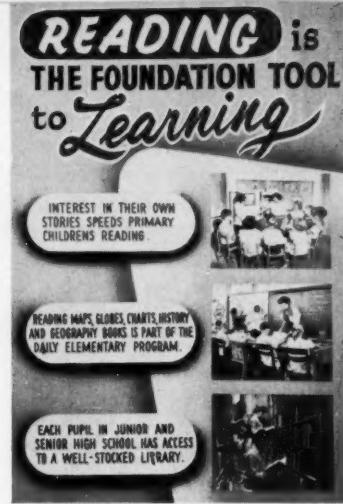
Many administrators have made a beginning in these areas. It is a good idea to examine specific situations carefully to determine what further steps can be taken. These are challenges which, if adequately met, will strengthen the educational program of the centralized school.



3R's are Basic to Americanism: half of school day is devoted to reading, writing and arithmetic



Education, First Line of Defense: Free and universal education, good citizenship, our American heritage



Reading, Foundation Tool of Learning: develops speed and comprehension, makes good citizens

Telling Your Curriculum Story

by WAYNE C. FRY

Assistant Director of Community Relations, San Diego City Schools

IN SAN DIEGO, we have found a way to dramatize the school story to laymen in a clear and effective manner that gets excellent response.

We used this technique in presenting the need for a \$15,800,000 bond issue, and the voters approved it by a substantial majority.

Therefore, when San Diego educators learned that many citizens had a false idea of what was being taught in the schools, they decided to use the same techniques to present the facts about what children are actually learning in the school system.

The educators had learned from leaders of local community groups that many members of these groups believed reports of Communist infiltration, bad "progressive" education practices and lack of emphasis on the teaching of American history in the schools.

To answer these false reports with facts about the school curriculum, the educators formed a committee which would work out a program using the same audio-visual techniques that had been used successfully in the school bond campaign.

The planning committee was composed of representatives from the instructional, audio-visual and pub-

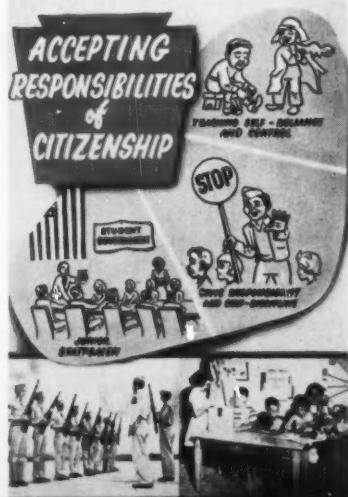
lic relations offices of the San Diego school system.

The committee decided to put particular emphasis on the program for citizenship development which was an important part of the school curriculum.

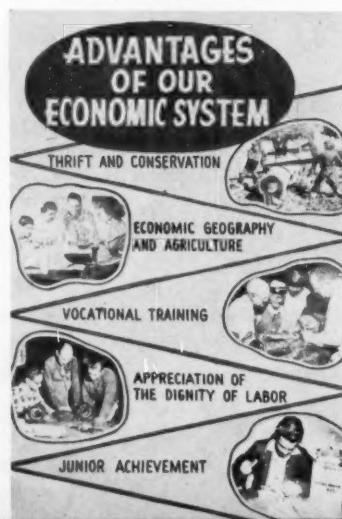
As in the earlier bond issue campaign, plans were made for presenting talks to local organizations. These talks were to be given, as before, with the aid of large, colorful posters.

The committee assigned two members to develop the posters and the accompanying speech. It was decided that the talk would take about 20 to 30 minutes. Each poster was to emphasize only two or three major

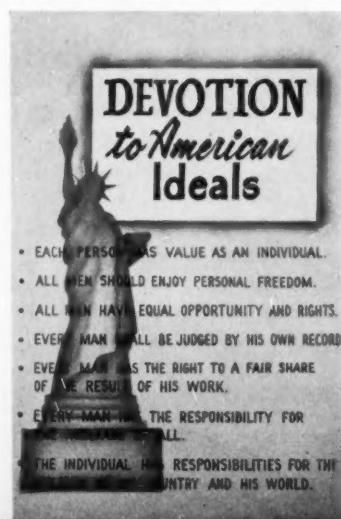
Accepting Responsibilities of Citizenship: self-reliance, voting in school elections, self-discipline



Advantages of Our Economic System: Thrift, conservation programs, economic geography, agriculture



Devotion to American Ideals: responsibility for welfare of all, respect value of the individual



IDEAS ARE EXPRESSED AND PRESERVED THROUGH **Effective WRITING**

INSTRUCTION IN HANDWRITING
IS A PLANNED PART OF OUR
SCHOOL PROGRAM.

Creative thinking and
writing is practiced in
campaign posters and slogans.

STUDENTS DO RESEARCH
FOR FACTS IN WRITING
REPORTS.



Ideas are Preserved and Expressed Through Effective Writing: pupils get instruction in handwriting

OUR AMERICAN ECONOMY REQUIRES COMPETENCE in ARITHMETIC

THE PRIMARY GRADES HAVE
MANY CHANCES TO STUDY
NUMBER VALUES.

BASIC FACTS AND NUMBER IDEAS
ARE LEARNED IN THE MIDDLE GRADES.

HIGH SCHOOL STUDENT STUDY
MATHEMATICS TO PREPARE THEM FOR
BUSINESS, COLLEGE, AND FAMILY LIFE.

American Economy Requires Competence in Arithmetic: Pupils study number values, basic number ideas

DO MEET THE DEMANDS OF AMERICAN CITIZENSHIP

AMERICANS
NEED TO THINK
& REASON
CLEARLY

Understanding
People

Understanding
Civic Issues

Understanding Human
& Spiritual Values



Americans Need to Think and Reason Clearly: to understand people, civic issues, spiritual values

points. Thirteen posters were to be made, so that about two minutes of the talk could be spent on each. The illustrations and printing were to be large enough to be seen and understood without difficulty. All terms used must be simple and easily comprehended.

The actual work of developing the talk and having the posters made by the school district artists took about six weeks.

A speakers' bureau made up of twenty administrators was selected. They were brought together at a meeting in which they were shown the most effective way to use the posters.

A letter was sent to about 500 groups in the community, announcing that the talk was available. The school district's Office of Community Relations scheduled the speakers as

requests came in from interested groups.

Members of the speakers' bureau delivered the talk to 50 groups in San Diego during the school year 1953-1954. The speech and posters were also presented on a television program, and the posters were used for a special window display in a downtown store.

Under the leadership of Superintendent Will C. Crawford in the fall semester and his successor Ralph Dailard in the spring semester, the project was highly successful. Groups which heard the talk received it very favorably. Large numbers of people learned this vital information about the schools.

The method is recommended to other schools that want to bring their story before the community in a dramatic and convincing way.

Youth Speaks for America: Quotes from prize-winning essays by 5th, 8th and 11th grade students

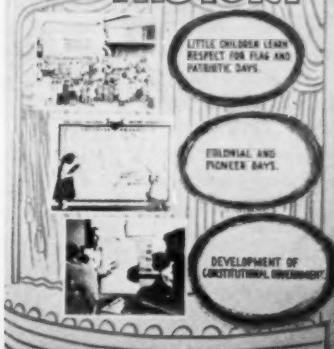


Community Teamwork Builds Americanism: importance of helping youth to become good citizens



What is Americanism: Faith and pride in country, devotion to freedom, defense of American Way

the DRAMA OF OUR COUNTRY'S HISTORY



Let's revise our school accounting system

by GEORGE H. GATJE

DESPITE the inadequacies of present day school accounting methods and the need for better procedures, few new ideas have been contributed to this topic in recent years.

Practically no progress has been made in improving Hiram C. Case's classification system of eight character groupings (general control, instructional service, operation of plant, maintenance of plant, fixed charges, auxiliary agencies, debt service and capital outlay) adopted by New York in 1916 and subsequently by most of the other states. These early techniques are hardly in step with the advances made over the years in educational thinking and the increased complexity of public school administration. There is a real need for a new approach to the whole problem. The system briefly outlined here overcomes the deficiencies of classical procedures and provides for the securing of cost data not determinable through current methods.

Six Deficiencies

The deficiencies of present systems of account classification may be enumerated as follows:

1. The classification plan is not conceived primarily in terms of the over-all major school objectives—elementary, secondary, higher and adult education and community recreation. As a result, the total costs

This article summarizes some of the proposals Mr. Gatje made in a document he has compiled, "A Proposed Revision of the Classification of Public School Accounts in New York State." He is superintendent of the Bay Shore, New York, Schools.

for these activities are not cumulated nor can they be easily determined from the costs as they are recorded.

2. Several of the principal groupings are arbitrary in their conception and do not conform to present day educational thinking. For example, Auxiliary Agencies often includes such services as health, library and interschool athletics which in the past were considered extra-curricular but are now accepted as essential to the instructional program. In this category also appear transportation and cafeteria which are unrelated to the other three but are indirectly necessary to education.

3. An indefinite and vague combination of expenditure groupings is used to denote current expense. Even though debt service and capital outlay may both be justifiably charged to one year's operation, they are usually excluded as items of current expense. Some states, however, do consider capital outlay as a current expense. Ordinarily, capital outlay contains instructional items such as library books which should no more be classified as capital expense than should textbooks. There is considerable difference of opinion as to what constitutes capital expenditure for school purposes, but it is felt that the costs for equipment should not be capitalized unless the payments are actually spread over a period of years, in which event the annual payments plus interest then rightly become a current expenditure.

Rarely are school districts able to finance major capital expenditures by means other than long-term borrowing. The amortization periods of these loans are usually specified by law, and the minimum annual pay-

ments are based on realistic capitalization rates. It can be reasoned that the payments on the principal amount of a bond issue, as listed under debt service, are actually a current expense. Interest charges, also conventionally classified as debt service, are obviously current expenses.

4. The present plan does not permit an easy and accurate method of determining tuition charges for the various instructional programs.

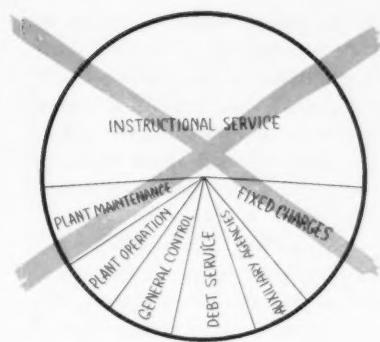
5. No distinction is made between the direct and indirect costs applicable to the various fields of education. This deficiency makes it impossible to determine total costs in terms of end objectives.

6. Revenues are not classified according to the educational programs they affect. Thus the net cost of an activity to the school district is not determinable.

Classifying Receipts

Practically all existing classification systems in public school accounting divide school district receipts merely into revenue and non-revenue receipts according to the source of income. Good accounting procedure would, as far as possible, not only classify receipts according to their source, but would also match income and expenditure by indicating the cost account affected by the receipt.

In making provision for matching income with the proper cost account in the proposed classification system, revenues are more properly divided into distributable and non-distributable receipts according to whether these amounts can be credited to a cost account, and under headings indicating the sources from which



these funds are derived, as follows:

10,000 RECEIPTS

11.000 Non-distributable Receipts

- 11.100 balance
- 11.200 local taxes
- 11.300 miscellaneous

12.000 Distributable Receipts

- 12.100 state funds
- 12.200 federal funds
- 12.300 tuition
- 12.400 building rentals
- 12.500 miscellaneous

Classifying Expenditures

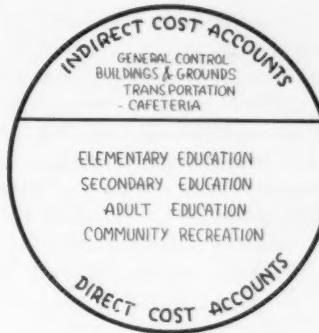
As far as this proposal is concerned, only the ordinary costs within a fiscal year, or the current expenses as accounted for in the General Fund, are termed expenditures. Extraordinary payments for large capital outlays financed by bond issues and capital notes are expected to be accounted for by the establishment of separate and independent funds.

The suggested plan for classifying expenditures proposes that all payments be divided into two main groups: direct costs and indirect costs. Direct costs are considered to be those involved in what may be termed the main purposes of the school: elementary education, secondary education, higher education, etc. Indirect costs are those expenditures made incidental to these objectives.

In working out the new plan the conventional eight-character groupings of existing systems are largely discarded:

General Control is retained without any significant modification.

Instructional Service is subdivided and separated according to the instructional program of the school.



ed according to the total school program.

Cost Finding Procedures

Basically, the costs of measurable units of a manufacturing operation are obtained by combining the costs for which a particular unit alone is responsible (direct costs) with its prorated share of the costs that apply to more than one unit (indirect costs). This general procedure is followed in finding costs for other types of enterprises such as the public schools—the cost unit or product is first identified, its direct costs applied, and the indirect costs equitably prorated and distributed.

The classification plan of public school accounts here proposed follows this fundamental concept. The product is identified as the end objectives of the public school: elementary education, secondary education, etc., with the direct costs applied immediately and the indirect costs carefully distributed to the direct cost accounts. Since it is not unusual for expenditures to affect more than one cost account, direct and indirect, a scheme for prorating must be resorted to, in order that costs may be equitably charged to the proper accounts.

The next step in the cost-finding process is the distribution of the indirect costs to the various other indirect cost accounts affected. The order in which this is accomplished is important, otherwise all the costs pertaining to a particular account may not be included before it is distributed. The indirect cost account affecting the greatest number of the remaining accounts should be distributed first, and the one affecting the least number last.

The final cost-finding step is the redistribution of the new total indirect costs to the direct cost accounts according to previously determined percentages. When this is completed all the indirect cost accounts will be closed out and the total expenditures of the school district will be included in only the direct cost accounts. The full cost of each major school activity can then be determined by totaling its particular account.

by ALBERT M. LERCH

Director of Guidance
Northampton Area Joint High School
Northampton, Pennsylvania

WHEN TESTS SHOW that a pupil hasn't the mental ability to keep up with the rest of his group in academic work, the teacher will often throw up his hands in despair and ask, "What can you do with them?"

We all know how discouraging it can be to have slow learners in the classroom who retard the progress of the entire class and place a strain on the teacher's patience. Teachers usually wish they could ignore dull students or shift them on to someone else.

In large schools there are usually special facilities to help the slow learners. They are grouped together in special classes with individual

teaching and promotion by subject—a student in the eighth grade may be taking fifth-grade grammar, for example. There are vocational, technical or special schools provided for them. Psychiatrists, psychologists, reading specialists, speech-correctionists and specially trained teachers for the retarded are usually hired by large or wealthy schools.

Untrained teachers have problem

However, in the school that cannot afford to employ these specialists, the teacher is left with the problem of dealing with the retarded child. The teacher who has not been specially trained may well throw up her hands and say, "What can you do with them?"

When I first started teaching and knew nothing about the problem, I

was assigned a homeroom made up of the slowest learners in the seventh grade. I learned that this class had been given to me because the other teachers were tired of these pupils. "We had them long enough—let someone else take them," was their attitude.

I was just out of college, eager and idealistic, and when I discovered why these children were unwanted, my sympathy was roused and I treated them with patience, understanding and respect for them as individuals. They responded so well that my homeroom did what the other teachers believed impossible—it captured the grand honor banner awarded yearly to the homeroom which had accumulated the most points based on attendance, scholarship, ticket sales, intramural champions and other factors. Yet one of

Slow learners can become well-adjusted, useful citizens, though

impatient teachers often throw up their hands in despair and ask:



“What can

Association for Help of Retarded Children photo

THE SCHOOL EXECUTIVE

the reasons the other teachers did not want the retarded children in their classes was that they felt that these children usually spoiled the chances of the rest of the group to achieve the grand honor banner.

Slow learners earn more than teachers

For the next several years after this experience, I asked for the slow learning group and enjoyed working with them. Today most of the students I had in those years are married, have comfortable homes, and in many cases have luxuries which the teachers who taught them could not possibly afford.

The fact is that given the opportunity these slow learners can adapt themselves to a useful role in society in which they can function successfully. The school often makes the

mistake of trying to prepare every pupil, whatever his ability, for a professional or skilled job. We may attempt to make a poor student work harder with the words, "Do you want to end up being a ditch digger or garbage collector or junk man?" Yet all these jobs are socially useful and somebody must perform them. If the garbage collector should neglect his duty for several days, it would be clear how important his job is to the welfare of the community.

Teacher's attitude important to pupils

The slow learner can become a useful and happy member of society if he feels himself a wanted member of the group. The teachers' attitude is important in determining the pupil's attitude towards himself.

give him a smile and kind words, because this may be the only kindness he will know. She will accept him as he is and not try to make him into something he cannot become.

Need to be accepted by other students

One of the projects which has most often proved successful in making the slow learners feel a part of the whole group and in making the other children accept them is to have them put on a play. Recently I witnessed a performance in a junior high school which had this goal. Before the program got under way, there was an unhappy tension in the audience. The feeling was, "They are sure to forget their lines, and become a laughing-stock before they are half-way through."

However, from the moment the curtain rose, the student audience was held spellbound. Afterwards, their applause was sincere and long. The program was completely successful and captivated everyone. The most gratifying part, however, was the glow that came over the retarded children who had performed. They had been accepted by the other students. Their subsequent relationship with the rest of the student body was completely changed by this experience.

Children appreciate sympathetic teacher

The teacher responsible for this accomplishment had worked hard to instill confidence in the slow learners. The admiration of the retarded students for this understanding teacher was very evident.

If a slow learner cannot keep up academically, there are still many more important things the school can teach him. He can learn to share, to take turns, to play and work together, to control his actions, to respect the rights of others, to be obedient and to do what he can do to the best of his ability. These traits will make him a good citizen, and make his own future secure. Society will always have a job for the dependable individual.

That is the answer to the question, "What can you do with them?"

you do with them?"

Small schools which have no special facilities for retarded children must solve the problem of providing them with learning and social experiences which will help them become an integral part of the school life.

For this reason, the teacher must continually guard his own actions and attitudes. He must be careful to give the pupil a feeling of confidence and self-esteem.

Give pupil tasks he can accomplish

One of the best ways to do this is to provide opportunities for the pupil to do things he can accomplish successfully, and then give him words of praise. He can be assigned some responsibility in the room, or given a part in a play. The teacher should learn the student's interests and try to share them, and to look at things from his point of view. She will discover what his home life is like, and

How to Win Bond Issues and Influence Voters

A citizens' public relations committee can best tell the voters the facts and answer the opposition's arguments on the need for a new school

by B. I. MACDONALD, JR.

WHEN EDUCATORS WISH to obtain a bond issue for the construction of a new school, they can usually count on meeting organized opposition in the community.

The best way to meet this opposition is to be prepared for it in advance and to plan a campaign that will bring the facts to the voters in terms that will be persuasive and meet the arguments of the opposition.

The best way to do this is to enlist the help of citizens' groups in organizing the necessary publicity campaign. These groups are usually in a better position than school boards to carry out this function, with the cooperation of the administrators.

In Schenectady, New York, last June the voters approved a referendum authorizing the Board of Education to issue bonds for the construction of a new high school. Much of the credit for the success in the

Mr. MacDonald was a member of the public opinion group of the Schenectady Citizens Committee for the Public Schools which campaigned successfully for a new high school last June.

election was due to the Schenectady Citizens Committee for the Public Schools.

This organization consisted of several affiliated committees, each working on one aspect of the project of getting the referendum passed. One group was set up for fact-finding, another for publicity, and another as a speakers' bureau.

One of the groups concerned itself with the ways and means of influencing public opinion. Some points from the experience of this group may be helpful to educators in other communities who plan a similar project.

In planning the campaign, it should be clearly established at the outset that the Board of Education and the school administration are responsible for identifying the need for a new school, planning for the solution to the problem, and bringing the issue to the public for approval.

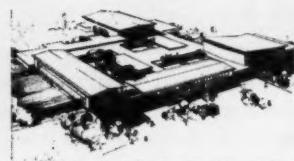
The citizens' groups, after satisfying themselves on the merits of the issue, should then work out the necessary publicity campaign. Of course proper coordination between educators and the citizens' groups is essential.

The basic plan which the educa-

PHOTO BY R. H. STONE

FACTS BEHIND THE VOTE

The New Plaza High School



What is the matter with Nott Terrace High School?
Why is a new school needed at this time?
How much will it cost?

Here are the factual answers to these and other questions you may have about the proposed new Plaza High School. These are the facts to vote by when the bond issue to finance the new school comes up for referendum June 8.

Proposed by the Schenectady Citizens Committee for the Public Schools.
Membership open to all citizens.

tors wish to bring before the voters must be sound and have a strong economic justification. There must be a careful consideration of the financial aspects of the proposal. Since an increase in tax rate is almost always involved, it must be determined that such increase is reasonable for the community. Equally important, the alternatives, or results of a "no" vote, must be determined. It may be advantageous to publicize a comparison of the two. Since most of the voters are not accustomed to thinking in terms of spending sums of money of the magnitude required in building a new school, it is desirable to establish as references the cost of other buildings familiar to the voters.

Compare with cost of other buildings

For example, this may be done by comparing the cost of the proposed new building to that of a school in the same or in a neighboring community, of a similar sized industrial building, or of an older school in the community when referred to the present cost basis. The voter should be assisted to the point of view that he is investing his money wisely for the future.

The Problem

1. Q. What is the Schenectady High School Problem?

A. Nott Terrace High School, one of two Schenectady High Schools, is about 50 years old and in need of extensive repairs. Should Nott Terrace High School be repaired or should a new high school be built at a new site?

The Condition of Nott Terrace

2. Q. What is the matter with Nott Terrace High School?

A. The main fault with Nott Terrace High School is that the buildings have out-of-date facilities that do not adequately meet the requirements of a modern educational program. As examples:

DIRECTIONS
SITES OF NOTT TERRACE HIGH SCHOOL
1. Nott Terrace High School
2. New High School
3. Residential Area
4. Industrial Area
5. Commercial Area
6. Residential Area
7. Industrial Area

3. Q. Where are small and poorly fit.

4. Auditorium can seat less than half the student enrollment.

5. Athletic facilities, indoors and out, are inadequate.

6. Laboratory and home-making spaces are inadequate.

7. Music rooms are make-shift and small.

8. Printed shop spaces are a mile away from rest of school.

Description of the Proposed High School

9. Q. Where and how large is the proposed new high school?

A. The Plan site is bounded by the Plaza, McCallum St., Franklin Boulevard, and Waverly Place. It is 32 acres.

10. Q. Why was the Plaza site chosen?

A. The Plaza site was chosen because it had sufficient land available for a modern school at a location that was conveniently located and easily reached by main arteries of traffic. Some of the land was tax delinquent and the whole property was purchased for less than \$100,000. Recommendation was made to the Board of Education by the Plaza Site Selection Committee. Report in the Plan Site Selection Committee's Report by the Chamber of Commerce (1949) and the City Planning Commission on numerous occasions (1949 and 1950).

Curricula

11. Q. How is it expected that the curricula in the new high school would differ from that at the present Nott Terrace High School?

A. The curricula in the new high school is anticipated to be essentially the same as that in the present Nott Terrace High School, retaining its American on Broadway, but it will take advantage of the modern situation.

Cost

12. Q. Will the public have any voice in the programs to be offered at the new high school?

A. Yes. Citizens interested in the programs to be taught at the new high school will have an opportunity to meet with school personnel concerned with various programs and to discuss the offerings in these areas.

13. Q. How much will the new high school cost?

A. The new high school on the Plaza site will cost less than \$1,000,000. The following estimate is the basis for this cost:

Construction Cost	\$1,000,000
120,000 square feet \$1.17 per square foot	33,000,000
Six Bleachers—playground fields, etc. \$8,000 per acre (32 acres)	256,000
Plaza and Ramparts (City of Construction Cost)	450,000
Amplifiers (% of above three items)	270,000
Conveyances—legal fees, insurance, closing costs (1% of above items)	230,000
Total	\$1,000,000

Since the school area has been found at 234,000 square feet, any reduction in building area from the 127,000 square feet estimated above will result in a lower cost for the new high school.

Brochures are effective way to explain school needs. These are pages from a booklet distributed by Schenectady Citizens Committee in campaign for a new high school, presenting the facts to voters.

Early in the campaign, all facts about enrollment, site, building proper, cost and method of payment should be determined and explained in straightforward terms to the voters.

Give voters facts early, in detail

The effectiveness of this presentation will be greatly enhanced if it is given early and in detail, rather than in response to adverse criticism.

As realistic and accurate an estimate as possible of projected enrollment should be presented to the voters in clear and simple form. Factors affecting the future include population growth, school and preschool census, possible expansion of parochial schools, future real estate developments, and plans for expansion or contraction of local industry.

The site and school design should be settled as early as practicable and the information given to the voters. The site should be selected with the following considerations in mind: its location relative to the population to be served; the general reaction of the voters to the location; size of site in relation to all facilities that are planned; parking facilities,

either on the site proper or nearby, other than streets; effect on the neighborhood; availability of water and sewer; and cost.

A realistic estimate of cost should be arrived at and the method of payment settled before the campaign is started. It is particularly important that the actual effect of the bond issue on the tax rate be made perfectly clear to the voters.

Usually, it is best to present the effect on the tax rate as the actual change in the rate per \$1000 assessed valuation, rather than in terms of cost per family per day. Plans of the new building need not be described in detail if data are not available, but vacillation and indecision on plans should not be allowed to confuse the public.

Present brochure with pictures

The description of the building and facilities should be presented in enough detail to permit the voters to visualize what will materialize in the community as a result of the tax money to be voted. The voter is accustomed to a brochure with pictures when he goes to buy a new refrigerator or a new car. He should

receive something similar if he is selecting a school.

The plans in the brochure need not present in full every feature of the building. Clearly this could be both time-consuming and undesirable, for it could lead to argument about small details which are not important at the initial stage of the project. It could also lead the voter to think that everything had been settled before he was consulted. It is better to leave some room for suggestion, so that the voter may feel he can participate in the planning or contribute from his own experience.

Have clear, definite building plans

On the other hand, broad plans should be definite enough and clear enough for voters to feel that the project has received good planning and preparation.

Plans cannot be cooked up overnight without care and study. The citizens' committee or school board which is promoting a project should be prepared to explain why its basic planning is sound before going to the community to ask for an affirmative vote.

The truly "educational" features

of the building should be the focal points of the selling campaign. Swimming pools are educational to the professional educator, but the public does not look at it this way.

Opposition will argue economy

It is certain that economy and elimination of frills will be a salient argument of the opposition. This can best be countered by strong emphasis on the basic educational features of the plan. Attacks on "wasteful spending" are merely diversionary issues. It is sound to keep the eyes of the public focused on such important factors as environment, adequate lighting, noise level, atmosphere and improvements in classroom facilities needed to keep pace with up-to-date teaching methods. Early in the campaign conscientious efforts must be made to answer the opposition.

At the outset, it must be accepted that there will be opposition. It is naive to assume that the absence of an organized dissenting voice early in the campaign is a harbinger of smooth sailing ahead—the opposition will show sooner or later.

In an effort to locate possible sources of objections, it is worthwhile to solicit on a personal basis the active endorsement of a large number of civic organizations and prominent individuals once the details of the proposition are fairly well established. Those who are favorably disposed may be enrolled to take an active part in the campaign.

Encourage opponents to voice objections

Those who are opposed to the proposition may be encouraged to voice their objections on an informal basis. These objections may have merit and efforts should be made to accept them and modify the plan accordingly. Other objections based on incorrect information frequently can be overcome by the frank presentation of the facts.

It can generally be expected that those opposing the new school will base their arguments on some aspect of the economics or financing in-

volved. The activity is often spearheaded by a homeowners' or taxpayers' organization whose avowed purpose is to protect the taxpayer from those who would squander public funds. Typical arguments presented might be:

- The school administration will spend the full sum authorized, and will make no effort to economize.
- Some individual in the school administration or school board is out for personal glory.
- It is far less costly to repair some existing facility than to build a new one.
- The real problem is teaching methods and not facilities.

The most effective way to combat these and similar assertions is to present *facts*. Large doses of factual information, clearly and aggressively presented, are the best countermeasure. They should be used early and often to avoid the supporters' being thrown off balance in mid-campaign by a concerted attack from the flank.

Take offensive in arguments

In summary, the effectiveness of organized opposition can be largely nullified if the following steps are taken:

- Plan at the outset for the existence of such opposition.
- Anticipate the most likely form and direction the opposition program will assume.
- Start early to publicize the facts that will take the punch out of their arguments—take the offensive.

People must be talked to on a block meeting basis rather than merely being given a handout of printed information. Too many questions remain unanswered and too many false impressions may be created.

Personal contact has been the most effective stimulant. Printed information serves primarily to arouse curiosity and is not the instrument that shapes peoples' thoughts. There are many voters who are "middle of the road" in their thinking, and who will not be inclined to pay much attention to the issue. A face to face discussion, such as in neighborhood or block meetings, can do much to

arouse favorable interest, and to dispel the doubts in the minds of such people.

In addition to the obvious influence such block meetings will have on the people who attend them, there is a corollary effect in informing and training individuals to conduct such meetings. The discussion leaders tend to form a large corps of interested individuals who may be counted upon to be enthusiastic and well-informed promoters of the project. They may later be called upon to "get out the voters."

Devoted group must lead activities

A group of devoted individuals must work diligently to co-ordinate activities, maintain enthusiasm, encourage others and be available to take care of details.

Experience has shown that with proper handling, supporting activities will increase almost spontaneously. While these activities must be initiated by some specific group such as the citizens' committee, nearly every neighborhood contains a nucleus of interested people who will work actively once the ball is rolling.

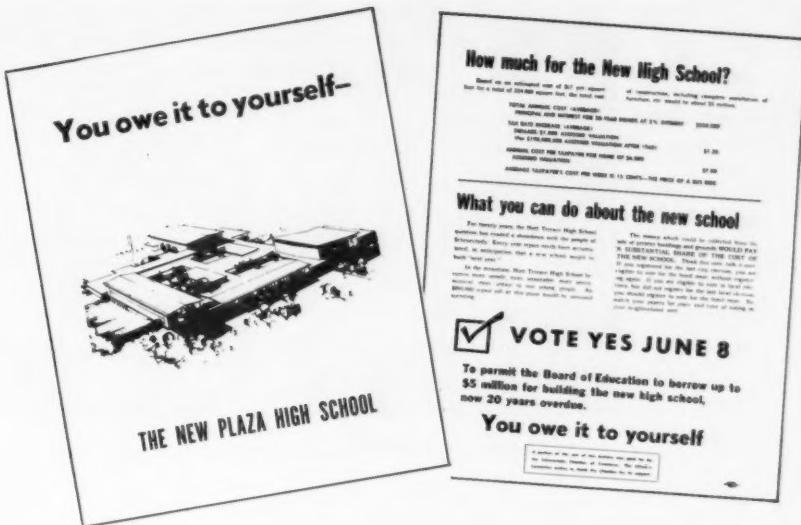
The activities naturally assume a neighborhood scope and take the form of block parties, block meetings, discussions with individual neighbors and drives to get out the vote. Groups like the Boy Scouts can participate in the distribution of information, for it is found that even the children are interested in the outcome of the election.

Need individuals to help in work

While these groups are working on the surface, the whole campaign should be closely followed and directed by a number of individuals who are wholeheartedly convinced of the importance of the success of the venture. These people will be actively soliciting the aid of more people for the cause; they will be following up the plans to see that they are carried out; they will help pick up loose ends and make sure all necessary work is accomplished.

Favorable support from press, radio and television, as well as pupils

Front and back of 4-page pamphlet issued by Schenectady Citizens Committee which tells why public should vote for school bond issue.



and teachers themselves should be actively sought.

A highly organized publicity campaign involving the press, radio and television must be planned. Careful timing must be followed with respect to the date of the vote so that this effort does not start too soon, but reaches a maximum just before the vote. People with advertising and sales experience can be most helpful in this regard.

The major effort in this campaign must be in the press. Contacts should be made with newspaper editors to obtain favorable editorial treatment. Letters to the editor must be answered quickly and objectively to offset unfavorable reactions. Local merchants and businessmen should be canvassed systematically to insert advertisements in the papers in favor of the issue.

Seek radio, television time

Permission and material should be obtained for spot announcements on the radio. Since radio time is often difficult to obtain this may be the limit of effort in this direction. However, an attempt should be made to produce a few full-length programs during the more intensive parts of the publicity campaign. These programs might take the form of round-table discussions, brief talks by selected speakers, and perhaps an audience-participation program.

In some of these programs, it should be arranged to use pupils interested in the goal, because their youthful enthusiasm is quite appealing.

Television time is the most difficult to obtain and must be scheduled quite some time in advance of the program. Spot announcements should be made and if possible a few full-length programs should be planned. This is sometimes possible when the local station allocates some of its time for educational matters.

Use local leaders, visual aids for TV

The type of program for television should be along the lines of those mentioned for radio but should, of course, make full use of the advantages which television has over radio. For example, local distinguished and popular leaders should be selected as participants and full use should be made of visual aids.

The assistance of the teachers and pupils should be solicited. The teachers can be particularly effective in working through the PTA by pointing out the ways in which the new school will provide better education for the children. The pupils can be helpful in door-to-door canvassing activities and in distribution of literature.

Having established a climate favorable to an affirmative vote by a well-planned and well-executed publicity campaign, the citizens' group

finds that its final step is to get out the vote.

A concerted effort must be made to see that all the eligible voters who might favor the proposal go out and vote.

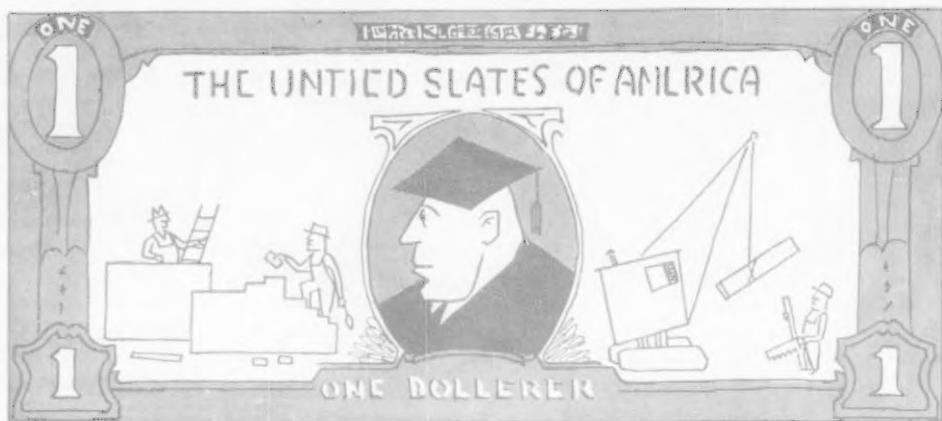
Before Election Day, voters' lists in each election district should be reviewed, noting those who are likely to be favorably inclined to the new school. On Election Day, each polling place must be observed and voters checked off against the list previously prepared. A few hours before the polls close, those who have not yet voted should be called and personally encouraged to get out and vote.

An organized transportation pool and baby-sitting service is an important adjunct to any get-out-the-vote campaign, and should be planned in advance of Election Day.

Well-defined program influences voters

These are the chief factors in planning and carrying out a campaign to obtain a favorable citizens' response for a bond issue for a new school. However, it is up to each administrator to assess the subtleties and influences in his particular community. There is no single formula which will guarantee success, but one of the most important elements of a successful campaign is a well-defined program for influencing public opinion.

The school dollar has two sides:



One: The original capital outlay for building the school: it may be kept to a minimum . . .

You can build a school for less money . . . but how much will it cost to keep it up, and how serviceable will it be? Laymen and educators planning new schools should look at . . .

The Other Side of The Dollar

by CHARLES D. GIBSON

WE ALL KNOW that the combined factors of depression, war, high birth rate, population mobility and status quo operation of our educational system has created a national crisis in schoolhousing.

However, the question "How can we meet the need for school buildings?" brings a confusion of answers resembling the many-voiced turmoil that occurred at the building of the Tower of Babel.

The first thing we need is a calm, rational appraisal of the situation, which will bring before the public the complete facts in terms that are readily understood. This is necessary to combat the common tendency of communities to stick their heads in the ground, ostrich-like, in the hope that the crisis will pass (it won't!) or to try to get away with

spending the least amount of money by building temporary school accommodations which are actually a false economy.

Many well-intentioned people are likely to come to the conclusion that the mounting size of the schoolhousing need in the United States and the limitations of current fiscal resources add up to only one solution—to cut the quality level of housing so that the unit of construction cost is reduced to a minimum. They do not realize what they will be losing in relation to what they believe they are gaining. In many instances, even a quick look at a quality level-cost equation would convince fair-minded people that a dollar has two sides to it.

One side of the available housing dollar could represent the capital outlay or first-cost factor of the school plant. The other side of the dollar could represent the soundness of the school plant investment as measured by the safety, comfort and work efficiency of its occupants, the positive or negative part the plant plays in the educational program and the degree to which plant main-

tenance becomes a major or minor operating budget item. In most cases, the dollars needed to pay for educational facilities and services in a community come out of the same pocket.

Building design affects educational program

Perhaps we should stress to a greater degree than we have in the past the "other side" of the school plant dollar. We might achieve sounder planning if we explained that the design of the school plant determines such educationally important factors as the adequacy of supervision of individuals and groups, the number and types of educational experiences which can be provided for students, the degree of convenience and orderliness with which these experiences may be carried on, the accessibility of areas, the possibilities for multiple use of space, the simplicity and directness of traffic patterns, how well students and teachers see and hear, and the degree of physical and emotional comfort of the occupants.

When responsible officials make

This article is based on Mr. Gibson's address to the thirty-first annual meeting of the National Council on Schoolhouse Construction, of which he is president.



Two: Cost of upkeep, quality of service: if repairs are high, service poor, it's no bargain.

decisions about the quality level of school buildings, they should bear in mind that the school plant can be a positive or negative factor in the formation of the growth and development pattern of students. Children and teachers are affected by the physical environment in which they live and work.

The time of planning a new school plant is a good time for a thorough evaluation of the educational program needs of the community, and an appraisal of the use of existing facilities. Where economies must be made, this offers a much better opportunity for wise use of the educational dollar than does the reduction of quality level in buildings.

"Basic Assumptions" supplement "Guide"

The National Council on Schoolhouse Construction issues a "Guide for Planning School Plants" which can be useful to communities faced with these problems. To the suggestions listed in this Guide, I would add the following "Basic Assumptions" which should be presented to any group which must make a decision on quality level and dollars to be spent in school construction.

- Public education is a basic and permanent part of our national structure; therefore, the assumption must be made that our society can and will finance adequate, permanent

school plants where needed. Current inadequacies for financing school plants must therefore be considered symptoms of poor school districting, poor property assessment practices, poor bonding and taxing laws, or perhaps a combination of all, rather than a basic inability of our economic structure to provide the funds needed for adequate permanent school plants.

- There is a vast difference between a building that is constructed to meet minimum legal and educational requirements and a building that is constructed according to good practice established through experience. Each governing board should establish a policy for its school district regarding the minimum standards of schoolhousing its community will support. It should establish a *quality level* of schoolhousing.

- A poor school district cannot afford to buy cheap buildings. Such buildings require constant and excessive maintenance costs, which then must be paid out of the funds provided for the instructional program.

If these already overstretched funds are not used to maintain the buildings, the cheap school plant soon disintegrates into a health and educational hazard for the students we compel by law to occupy it. The physical environment of the school controls to a large degree the efficien-

cy of the students and teachers living and working in the building. Therefore, it must be assumed that a reasonable capital outlay investment to provide an adequate physical environment is necessary if we are to protect the much larger operational investment we make in our schools.

- Control of education by local school districts that meet suitable criteria for adequacy must not be impaired by harsh and arbitrary restrictions upon school plant provisions by the state and national governments as a condition for providing funds for capital outlays. However, local school districts should not be permitted to escape a substantial local tax effort toward financing needed capital outlays.

- Local district control of education cannot be exercised properly unless the planning for school plants is done locally by architects and engineers employed by the district. State standards can and should be administered in such a way as to leave the greatest amount of latitude and initiative to local districts consistent with safety of occupants and minimum educational provisions.

When school boards and other responsible citizens are made fully aware of the facts and problems involved in school building and realize the importance of planning in long-range terms, they will get the most out of both sides of the school dollar.



Pupils react to music with free body movement as BBC radio broadcasts Music and Movement course for schools, designed to bring them good music well performed.

School administrators the world over have the same problems and attitudes, but there are also national differences . . . an American who spent a year in England studying schools tells something about . . .

The English School Administrator

by JOSEPH C. PAYNE

SCHOOL ADMINISTRATORS everywhere have the same basic problems. They must operate their schools in accordance with the wishes of a supporting public and yet maintain an efficient, educationally sound structure within the dictates of their own personal educational philosophy.

The problems, attitudes and methods of the English school administrator closely resemble those of his American counterpart. However, differences in the cultural and sociological history of the two countries, current economic conditions, and the after-effects of the war make for variations in national characteristics. A comparison of his own situation with that of the English members of his profession may be of interest to the American administrator.

Dr. Payne, educational research consultant to the Indianapolis Public Schools, based this article on an observational study of education he made during a year in England.

In the English tradition, the person who does not attempt to hold his job for life is branded as a failure. In fact, a major catastrophe does exist if one is "sacked" or fired from any job. In England, where a thousand years of history and tradition have built the country, change comes hard.

England has developed two distinct types of school administrator. One, the headmaster or principal of the individual school, is actually a master teacher concerned solely with his school. The other type is the practical, experience-trained school man who has little contact with the schools or pupils and whose sole job is the operation of an efficient governmental system. His position is dependent upon his ability to adapt his

local school system to meet the orders and demands of the Ministry of Education.

In England, there is a distinct lack of specialized school administrative training. The selection of a school administrator depends upon his seniority, his social position and his practical experience in education and school administration. Selection always includes an examination of the administrator's personality and his personal educational philosophy. It is important to English parents that he personalize his school and give it a reputation based upon his own personal educational views.

Although the English administrator does not have an advanced knowledge of the technical aspects of school administration, his professional attitude is one of the highest in the world.

Have complete freedom in curriculum

The right to hold a position is based upon his display of professionalism. According to this professional attitude, it is impossible for many school administrators to do wrong.

The responsibility held by each school administrator is great. Not only is he in full control of all purchasing for his school, but he has complete control of the curriculum. One of the basic tenets of this state school system is the complete freedom of curriculum.

Since the whole career of the school administrator is dependent upon the performance of the school and the educational result it produces, curricular freedom is essential. The administrator is guided by the needs and demands of the community, but generally he will use his professional authority in deciding what subjects are best for his pupils.

State school system limits administrators

The state school system has some features that tend to limit the school administrator. The local education authority is a part of the local government and is subject to the restrictions under which local government operates. Much delay in educational action is due to this connection since any major change in policy must be approved by a city or county council.

Another difficulty, not confined to England, is the change in basic educational philosophy that takes place when the political balance shifts. At the national level, education and administration may suffer from a partisan political attitude. The Minister of Education is usually not a professional educator, but a politician appointed by the party in power. The Minister usually follows the dictates of party policy.

One of the great differences found in English school administration is the absence of a basic democratic attitude. This is not to say that English schools are consistently undemocratic or employ undemocratic practices. Many schools are run very democratically, but only at the instigation of the individual school administrator. Usually, a hierarchy of responsibility and power operates from the administrator to the individual pupil.

A factor which tends to restrict

the school administrator is the organization known as Her Majesty's Inspectorate. This group, independent of the Ministry of Education, inspects and advises school systems and administrators. Originally designed to oversee the expenditure of funds, it has gradually evolved to a supervisory service which may recommend to the Minister of Education certain changes in the various schools. A major inspection of a school is made about once every seven years, and the results are published.

English education has come a long way in a comparatively short time. In ten years, since the passage of the 1944 Comprehensive Education Act, England has opened its school doors to every child, making it possible for all to obtain a free education beyond the elementary level.

In the interests of international understanding, school administrators could profit greatly from a study of comparative education, which would show them how other school men have solved the problems common to administrators in all countries.



England's Comprehensive Education Act of 1944 brought a postwar expansion of free public education on all levels, with improved school facilities. Here a rural teacher uses a new electric piano.



Toward Better School Design

Educator Shaw discusses architect Caudill's observations on planning the school plant

by ARCHIBALD B. SHAW

Superintendent of Schools
Scarsdale, New York

A DISCUSSION of school design by a top architect is naturally of great importance to architects, schoolmen and building committees. In his new book, *Toward Better School Design**, architect William W. Caudill has some valuable things to say on basic school building planning.

Caudill's thesis is that schools are built for the pupils. "The good school building must be functional. But it functions for the pupil in an environment peculiarly created to help him learn," Caudill writes. A good school, he believes, is one that has been designed, built and operated for the child.

Until we learn this, we will never find the approach to great educational architecture. With Caudill we must recognize that "Far more than mere housing for an academic process . . . the good school is a part of that process itself—a primary aid and a constant stimulus to learning—a human instrument."

**Toward Better School Design*. William W. Caudill, F. W. Dodge, New York, 1954, 288 pp., \$12.75.

Starting from this premise, Caudill goes on to study this "pupil" for whom the school is to be designed. He analyzes the student's physical needs in terms of finding the right Light, Air and Sound environment for the schools.

Caudill then brings out the social-emotional needs of pupils in relation to such design factors as atmosphere, scale, color, texture, comfort and security.

Within this basic frame of reference for all school design, Caudill goes on to describe the three major factors—education, environment and economy—which must be taken into account in planning the design.

Finds all levels need similar plants

In a chapter on "Education and the School Plant," Caudill comes to the conclusion that there is little difference between elementary and secondary school plants. He also makes the optimistic judgment that although we don't begin to know as much as we should about many important environmental and economic factors, we can use what we do know far more effectively.

In this book, Caudill presents case studies of problems rather than pat

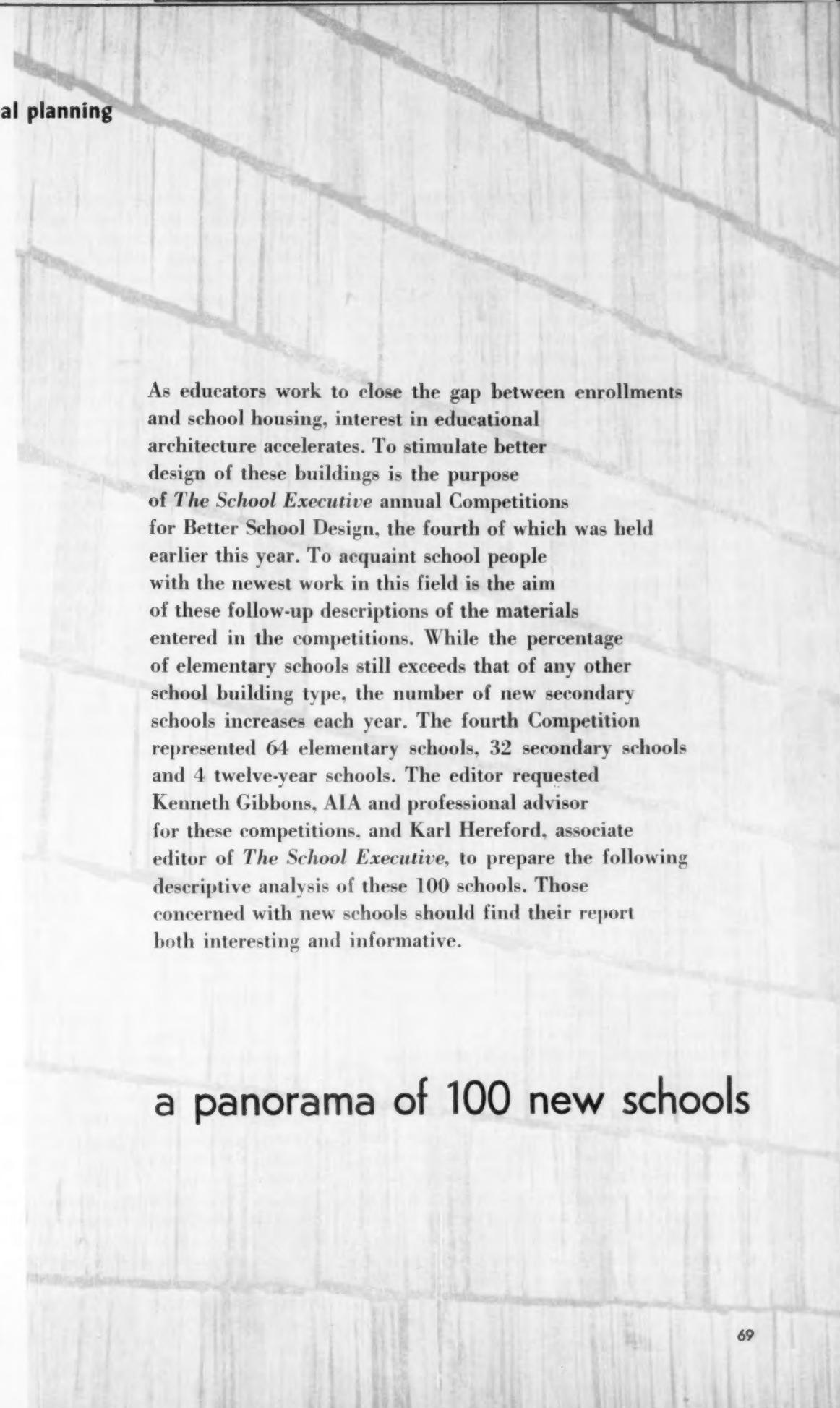
solutions. In 91 case studies in words and drawings gathered from architects, he shows some solution to problems ranging from door hardware to site use.

The book is handsomely presented, with an introduction by Richard J. Neutra, and some excellent drawings and photographic illustrations. There are, however, certain mechanical imperfections in the volume. The chief defect is that the illustrations are poorly placed in relation to the text which refers to them.

Architects, educators contribute ideas

However, the writer has many important things to say to both architects and school men. Many of these ideas have not been presented before in quite this way. The author draws heavily on the talents of the country's best architects and educators, who have generously cooperated with him in his researches on school problems.

Like Caudill's classic *Space for Teaching*, written before World War II, this book should have a significant influence on the concepts of school architects and educators who are now engaged in the important job of school planning.



educational planning

As educators work to close the gap between enrollments and school housing, interest in educational architecture accelerates. To stimulate better design of these buildings is the purpose of *The School Executive* annual Competitions for Better School Design, the fourth of which was held earlier this year. To acquaint school people with the newest work in this field is the aim of these follow-up descriptions of the materials entered in the competitions. While the percentage of elementary schools still exceeds that of any other school building type, the number of new secondary schools increases each year. The fourth Competition represented 64 elementary schools, 32 secondary schools and 4 twelve-year schools. The editor requested Kenneth Gibbons, AIA and professional advisor for these competitions, and Karl Hereford, associate editor of *The School Executive*, to prepare the following descriptive analysis of these 100 schools. Those concerned with new schools should find their report both interesting and informative.

a panorama of 100 new schools

SCHOOL AND COLLEGE buildings, which have been going up in record-breaking numbers, reached a new annual high last year of over 9000. One hundred and seven of these—of which 100 are elementary and secondary schools—were represented in THE SCHOOL EXECUTIVE fourth annual Competition for Better School Design.

Because the architects submit to this Competition that which they believe is representative of their best work, a panoramic survey of their designs gives us a fairly clear picture of today's good schools.

The 107 design entries were examined in January by the competition jury: R. Franklin Outcalt, Cleveland architect; Walter Bogner, Harvard University professor of architecture; Willard S. Hahn, architect of Allentown, Pennsylvania; Richard L. Howland, architect of West Hartford, Connecticut; and Ward I. Miller, superintendent of Wilmington, Delaware, schools. In their opinion, nearly one-third of these entries are "distinctly above average," sixteen of which were cited for awards (see March SCHOOL EXECUTIVE, page 49).

This analysis focuses attention on the 100 elementary and secondary schools reviewed by the jury. In order to describe these buildings, it seemed first necessary to locate what appeared to be the objectives of the architects. These seemed to break down into three major areas of attempt: to design *economical* buildings; to design *functional* buildings which will house today's educational programs while allowing for future program changes; and to "humanize" these buildings, that is to make them truly *livable*, taking into consideration the psychological as well as physiological characteristics of the people who use them.

Economy

The prevalent financial pinch compelled many architects to seek economy by keeping initial costs to a minimum. Dollar savings were frequently realized through light, one-story construction, use of new and inexpensive construction materials, multiple uses of space and greater use of the out-of-doors.

Though many buildings avoided the appearance of austerity, the jury questioned the ultimate economy of some of these structures. Initial economy in some cases may result in high maintenance costs within the building's expected lifetime.

Light construction: One-story buildings predominate. Pavilions (umbrella roofs) supported by steel stanchions upon which light, prefabricated exterior wall panels are hung were common construction devices. Laminated wood beams appear frequently as structural elements in gymnasiums and play rooms. Quite often such materials as brick and concrete block serve both as exterior walls and as interior wall finishes.

Multiple use of space: Large-group activities, usually

housed in such spaces as gymnasiums, auditoriums and lunchrooms, are frequently accommodated in one large multi-purpose room. Although some of these spaces may have derived from educational considerations, many are probably designed primarily to minimize costs. The resulting environment in some cases seems out of tune with one of the several purposes for which the space was designed.

Use of the outdoors: Several buildings reflect a greater use of the out-of-doors. Partially roofed-over play areas, covered outdoor corridors and playsheds are examples of this form of economical construction. Many classrooms open directly to individual class yards thus providing additional and "free" educational space.

Educators and architects often give lip service to the notion that "good schools cost less money"—that superior educational planning and design produces financial economies over the life span of the building.

The jury noted, however, that the 100 plans indicated "a need for more careful study and evaluation of the educational planning of the program needed." In other words, dollar savings is but one aspect of economy; economy in turn is but one factor in the design of good educational buildings.

Function

The architects' attempts to design their schools for maximum function appear in the ways they adapted the buildings to the sites, related the plans to the existing school program, designed flexible plans which can accommodate future program changes, related the spaces within the buildings and provided well-engineered environments.

Adaptation to site: One of the surprising characteristics of the Competition entries is the abundance of site problems. Many architects had to work with small and irregular sites which the jury found had handicapped them in their design solutions. The jury suggested that "More attention should be given to site selection even at greater cost; the end result would permit educational as well as construction advantages far outweighing the additional costs of land."

However, many schools are located on sites of 35 or more acres, continuing the trend of the past ten years toward large sites. Architects demonstrated a willingness to cooperate with land contours rather than bulldoze acres of earth for a conventional flat site.

A few designs suggest a further cooperation with natural site provisions in the layout of recreational fields, parking areas and experimental gardens. Many sites appear to be underdeveloped, suggesting that landscaping and site development have a low priority in the distribution of construction funds.

Relating plan to program: Most of the 100 buildings seem adequately designed for present-day programs. Ele-

mentary school classrooms continue to be large flexible spaces, square or rectangular, with areas totaling about 1000 square feet. These spaces usually provide sufficient unencumbered floor space for the different elementary school activities.

Some architects extended this laboratory classroom concept to the junior high school level with classrooms of 750-900 square feet. Few departures from the standard senior high school classroom appeared.

Most high schools provide a large facility designed to house shop activities. Though a few of these are designed for trades training, most reflect the trend toward expanded general shop programs at the secondary level. Outfitted to house heavy machine tools, automotive repairs and agricultural, woodworking and electrical studies, some of these spaces seem to be real laboratories where youngsters can explore and experiment.

High school gymnasiums are frequently very large and designed to house basketball as a major spectator sport. Some are divided by movable partitions for simultaneous use by boys and girls. A few schools provide additional small athletic rooms for handball, weight-lifting, corrective therapy and other small group physical activities.

Of particular interest in high schools is the increased emphasis on music spaces. Many schools include rooms for instrumental and choral groups, and some provide small practice and music-listening rooms.

Flexibility: Hurried and under pressure to create a maximum facility at minimum cost, school planners seemed to achieve more in their efforts to house present programs than to anticipate the inevitable program changes that will occur within the life span of the buildings. Where sites are adequate, plans generally provide for future additions to grow naturally from the original installation. This feature is especially evident in campus type plans.

Elementary and secondary campus schools, appearing in all regions of the country, range from a series of distinctly separate buildings to semi-attached units about a quadrangle. Some of these units are organized according to subject matter, and some according to grade levels. A few are organized as a series of small schools—each housing 200-300 with its own grade level organization—which share a central administrative and service facility.

Engineered environment: The jury reported that all 100 schools are excellent in their lighting, heating, ventilation and sound control. Integrated daylight and artificial lighting appear in all buildings. Top lighting, once tricky to execute economically, appears in many schools. Only a few adhere to the "punch-hole" unilateral fenestration. Exterior louvres and overhangs are used for light and glare controls.

Considerable attention is being given to acoustical control. Fibrous tile, plaster, metal screens and other sound

absorbers are applied to classrooms, corridors and large group spaces. Some of the architects indicated that ground cover, trees and shrubbery are employed to screen buildings from traffic noises.

Human Values

In addition to their attempts to design economical functional and technically sound buildings, some architects also kept psychological values in mind and created comfortable, colorful and aesthetically-pleasing spaces in which pupils and teachers can live and work together in a home-like atmosphere.

This element of livability is achieved through a unity of space, the inclusion of social living facilities and the use of color and decorative materials.

Unity of space: Many of the 100 schools achieve an "open" quality by visually linking indoor and outdoor areas with full or partial walls of glass. There are similar attempts to open the interiors of classroom by permitting a visual extension of one classroom's activities with those of others. Some architects have seemed to achieve buildings of inherent "wholeness"—schools which are functionally integrated and which foster a community feeling among the occupants.

Social living facilities: Educators and architects recognize that children are social beings who live and thus learn together. This notion is reflected in facilities for social living which appear in a few of the new schools.

Some of the school libraries are airy, restful spaces in which youngsters can work and study together. Opened visually with large glass areas, they frequently overlook or extend onto outdoor courts.

"Living rooms" for teachers appear in few of the schools. But evidently few school planners recognize that teachers need occasional respite from the emotional stresses incident to their work.

Still an exception to be found in the schools is a commons or central lounge appointed for fraternal relaxation, small group conferences and refreshments.

Color and art: With the trend toward simple, smaller-massed schools has come an increased use of color and decorative materials.

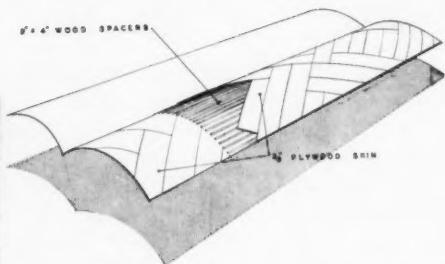
Natural wood, brick and other attractive materials are used advantageously in some schools to decorate as well as "carry" the building. Steel and wood beams are frequently left exposed to reveal the beauty of the structural form.

Color, with its natural appeal to children, is appearing increasingly in new schools. Many elementary classrooms and corridors have become ablaze with bright colors.

Selected photographs representing these 100 new elementary and secondary schools are shown on the following pages to illustrate the various ways today's architects are designing economical, functional, and livable school buildings.

economy | by light construction

Lens Art

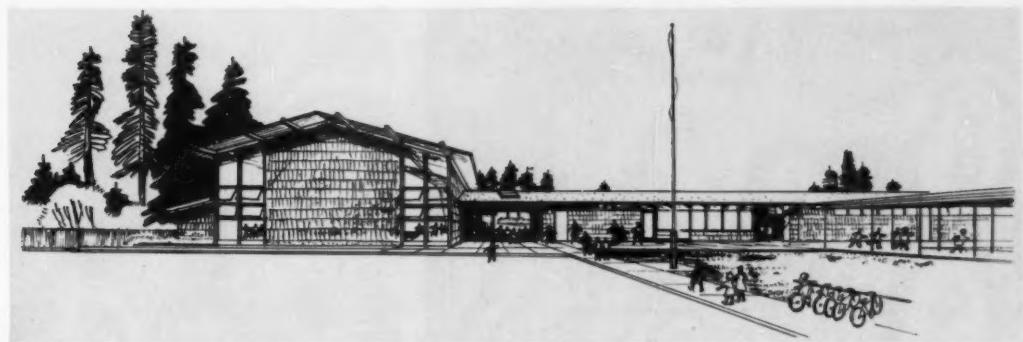


Steel pipe columns support arched laminated wood bents, over which are formed two adjacent $\frac{3}{8}$ " stress-skin plywood shells. Exterior walls between the pipe columns are prefabricated insulated aluminum panels; exterior walls are ribbed aluminum siding or wood sash. As shown on the cover, the structure can be jacked up and wheeled away intact. (Transportable 4-classroom elementary school, Dearborn, Mich.; designed by Eberle M. Smith Associates)

Larry Witt



Circular auditorium constructed with laminated wood arches grounded in concrete abutments on the exterior and terminating at the center in an arch ring. (Cocoa, Florida, High School; designed by Griffin & Gomon)



Multi-use building is spanned by laminated wood arches which support wood purlins, rafters and a T & G ceiling. In the extending classroom wing a central built-up beam, supported at the interior partitions with pipe columns, carries the weight at the ridge; rafters at 4-foot centers are supported by the ridge beam and structural window mullions. (Freshwater Elementary School, Humboldt County, California; designed by William M. Van Fleet)

Steel beam structural supports, anchored to steel stanchions, are painted and left exposed in classrooms. Asbestos insulating roof deck also forms the sound-absorbent ceiling finish—an example of economy through multiple use of materials discussed on the following page. (Schaumburg, Illinois, Elementary School; designed by Schweikher & Elting)

Hedrich-Blessing



economy | in use of materials

Hart Studio



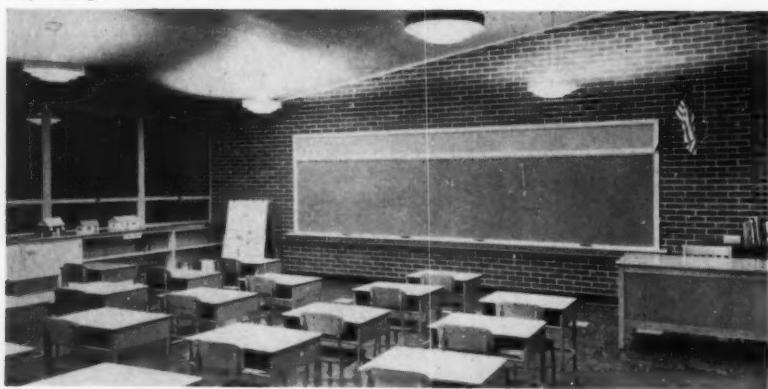
Classroom walls have 5-foot high wainscot of glazed tile with painted concrete block above. Floors are finished with rubber tile. (South Elementary School, Nappanee, Ind.; designed by Alves D. O'Keefe)

Roger Sturtevant



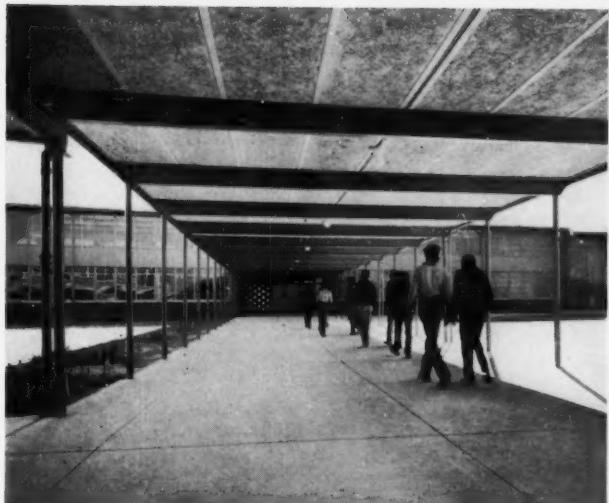
Classroom walls of natural finish vertical Douglas Fir boards. (Belshaw Elementary School, Antioch, Cal.; designed by Wurster, Bernardi & Emmons)

Wayne Wright



Red brick is used for both exterior and interior wall, thereby eliminating a separate finish material. (Rushton Elementary School, Mission, Kans.; designed by Donald R. Hollis)

Gabriel Benzur

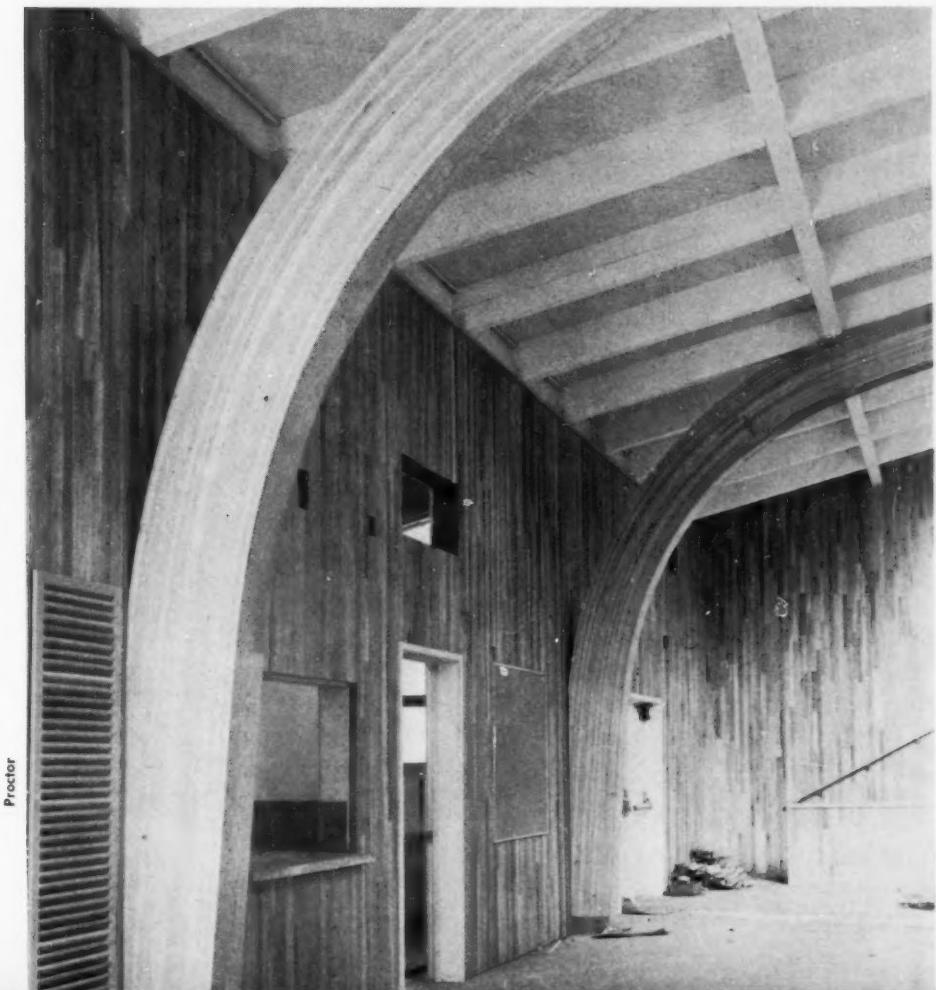


Ceiling of covered walk is sound absorbent, insulating roof deck. (Carver Heights High School, Columbus, Ga.; designed by Aeck Associates)



Variety of materials used in this corridor: brick, plaster and glass wools, asphalt tile floors, acoustic tile ceiling. (Arthur H. Smith Elementary School, Grandview, Wash.; designed by John S. Villesvik)

Laminated wood arches, exposed wood beam ceiling and oak flooring on walls in this multi-use building. More examples of multiple use of space on following page. (Freshwater Elementary School, Humboldt County, Cal.; William M. Van Fleet, architect)



economy | through multiple use of space

Ezra Stoller



Multi-purpose room serves as cafeteria, auditorium (stage folds away under bookshelves) and library. (Hollow Tree Elementary School, Darien, Conn.; designed by Ketchum, Gına & Sharp)

Kranzen Studio



Multi-purpose room houses library, audio-visual, music, speech and community activities. (Hoover Elementary School, Neenah, Wisc.; designed by Perkins & Will)



Well-lighted cafetorium—combination auditorium and lunchroom. (North Miami, Florida, Elementary School; designed by Wahl Snyder)



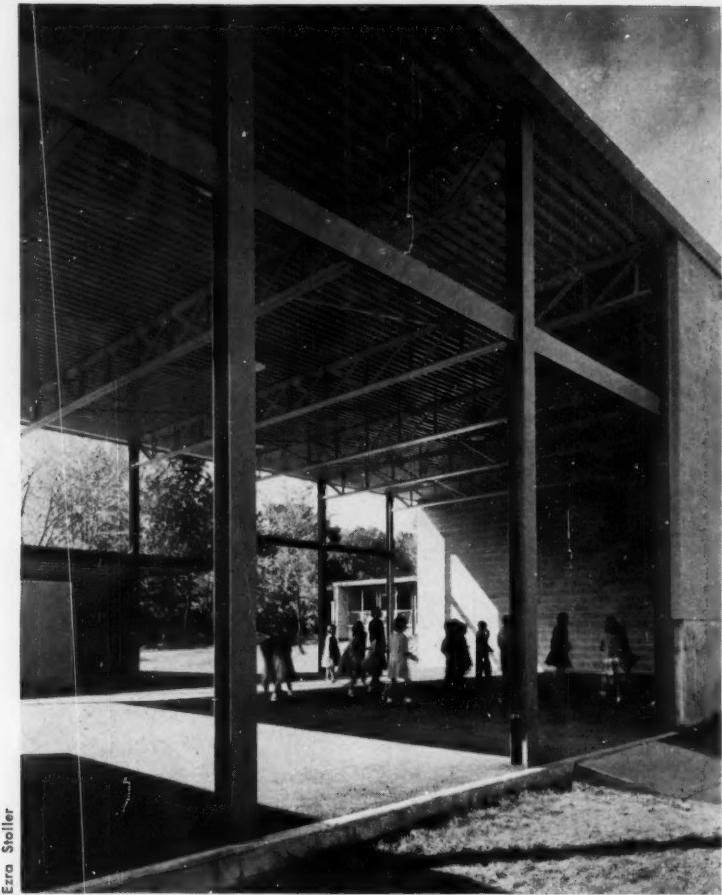
Combination gymnasium and auditorium. (Carver Heights High School, Columbus, Ga.; designed by Aeck Associates)

Corridor is widened to provide additional activity space adjacent to classrooms; spaces are separated by brick partitions. With nearby kitchen these areas also serve as individual lunchrooms. At right, between corridor and classrooms, are cloak storage and work counters. At left are doors opening directly to outside for additional classroom space—another economy feature which is treated on the following page. (Rushton Elementary School, Mission, Kans.; by Donald R. Hollis)



Wayne Wright

economy | use of outdoor space



Era Stoller

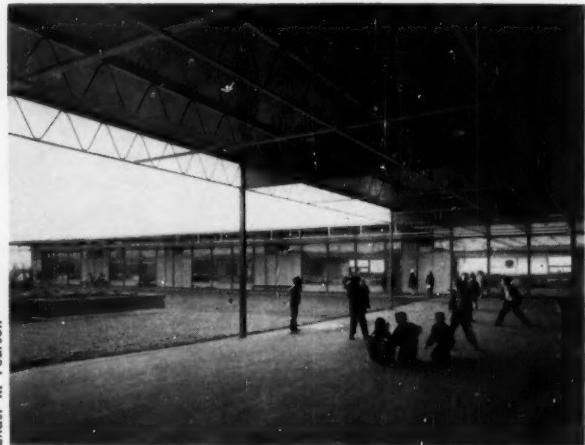
Paved, sheltered play area provides an all-weather outdoor play space. Surrounding buildings trap winter sun and protect the area from northern breezes. (Hollow Tree Elementary School, Darien, Conn.; by Ketchum, Giná & Sharp)

Classrooms open directly to the out-of-doors providing additional "free" instructional space, which in this climate can be used nearly year-round. (Dan H. White Elementary School, Rio Vista, Cal.; designed by Donald Beach Kirby & Associates)



Pirkle Jones

Classrooms open onto a common court which, rimmed with paving and cantilevered roof, provides a protected exterior corridor and play yard. (Paramount Park Elementary School, King County, Wash.; designed by Young, Richardson, Carleton & Detlie)

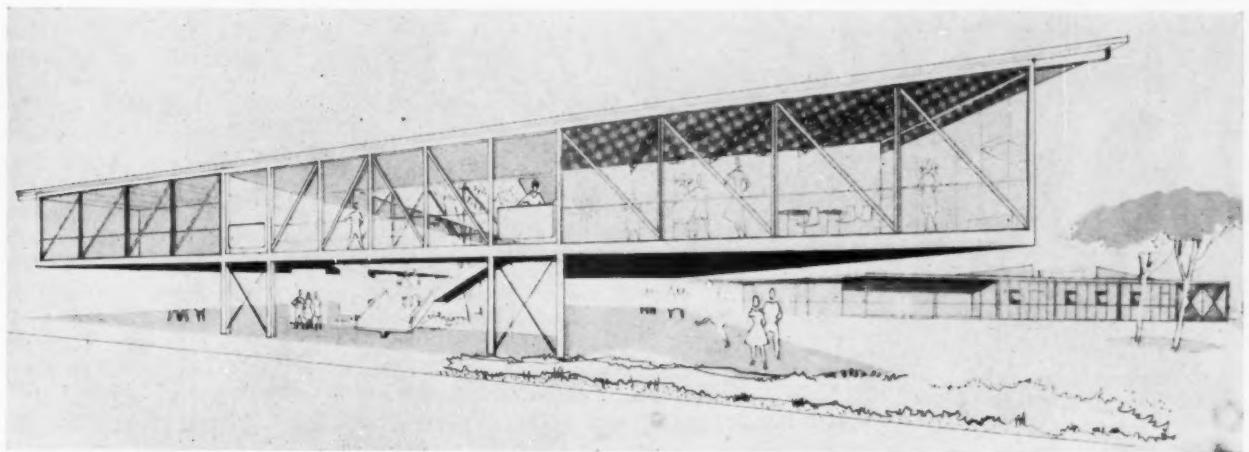


Chas. R. Pearson



The wings of this school are joined at an angle to provide a trapezoidal court which, roofed and paved, serves as a protected bus loading platform and play court. Other outdoor covered corridors help to integrate the entire structure. (Hoover School, Neenah, Wisc.; by Perkins & Will)

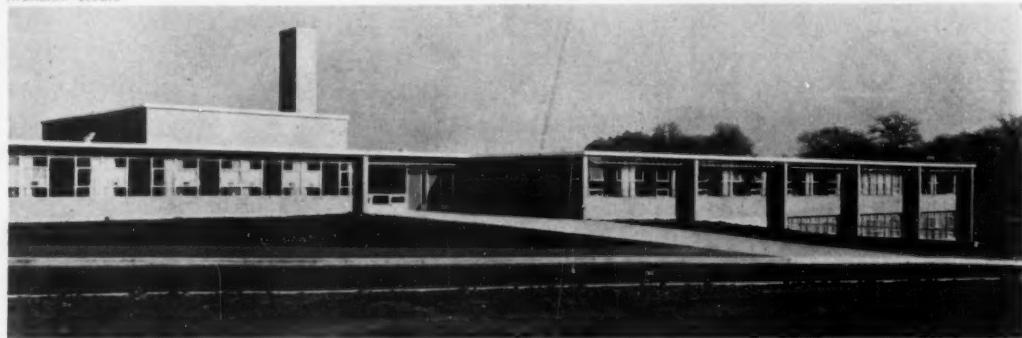
Classroom building is raised to provide play space beneath protected from frequent rains. Because of cantilevered construction, supporting columns are eliminated allowing wholly uncluttered space. This device also allows maximum use of the tiny site. (Phillis Wheatley Elementary School, New Orleans; designed by Charles R. Colbert)



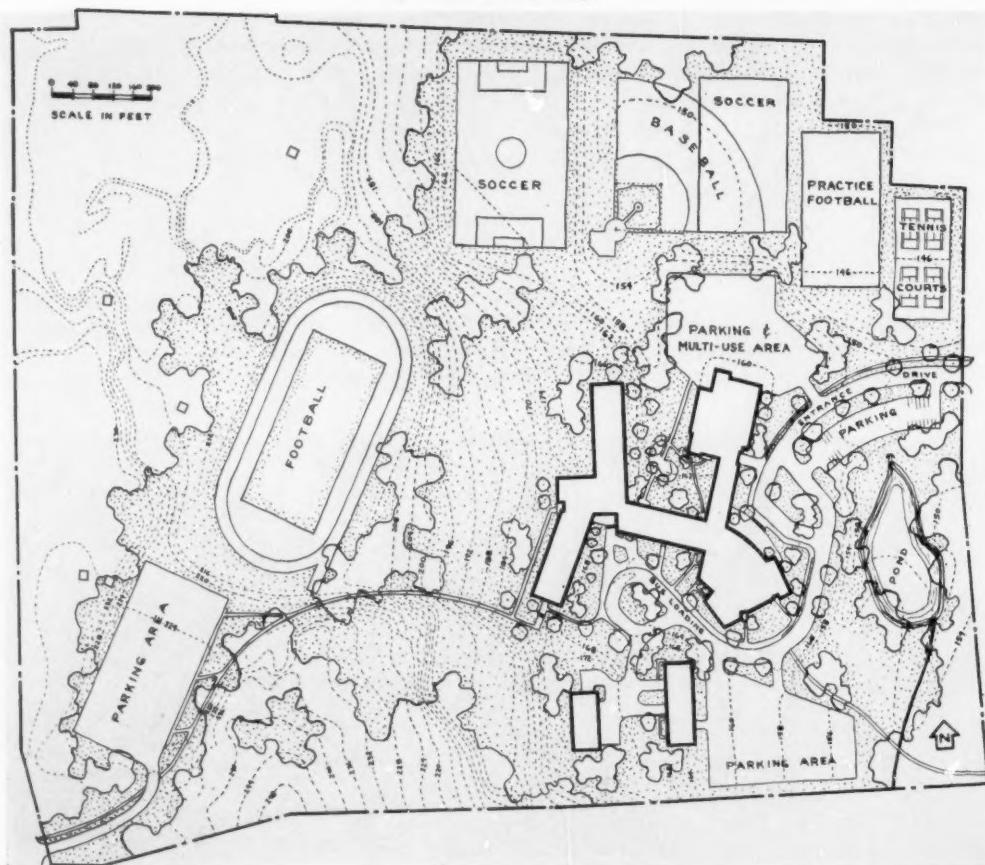
function | in adaptation to site

This rolling site was left rolling, not bulldozed, and fully utilized on two levels, both of which have direct access to grade. (Blackhawk School, Park Forest, Ill.; by Perkins & Will)

Kranzten Studio

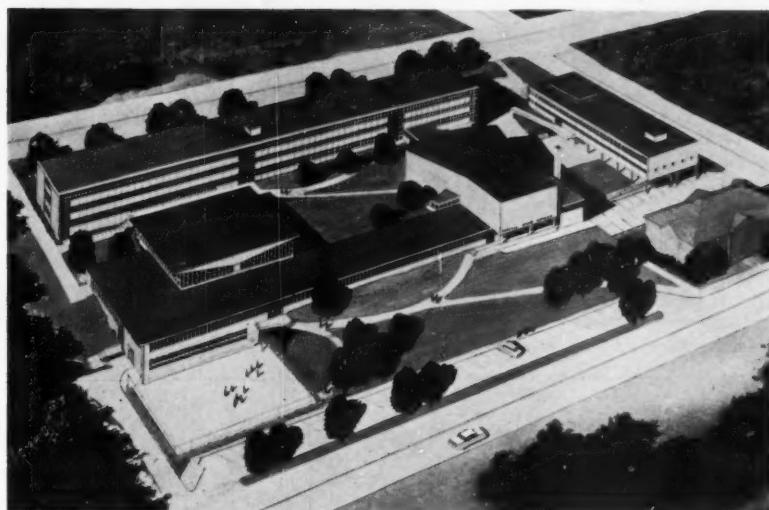


A high school that follows the trend toward large sites. Note the four separate parking areas, a pond and numerous athletic spaces. (Senior High School, West Springfield, Mass.; designed by Warren H. Ashley)



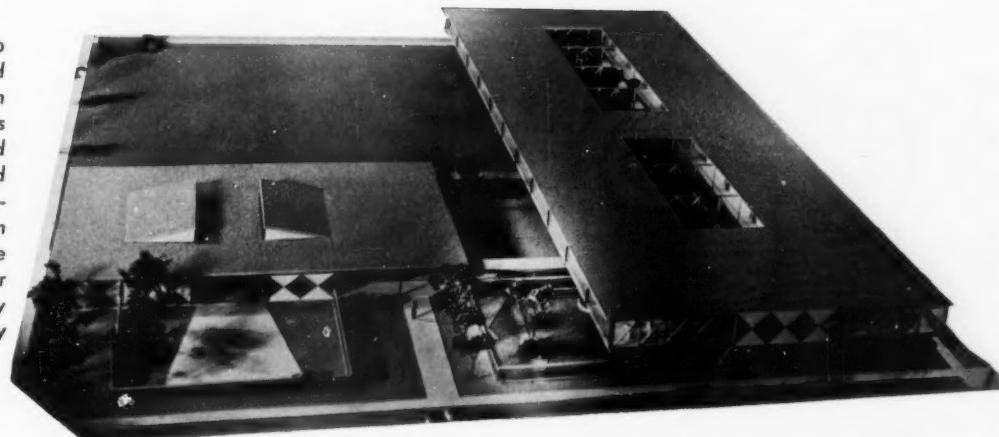


Classrooms climb this steeply-sloped 12-acre site. With vehicular traffic confined to the lower level of the site, the classroom wings and administration building are placed parallel to the contours and perpendicular to the central walkway. (Royal Oaks Elementary School, Duarte, Cal.; designed by Maynard Lyndon)

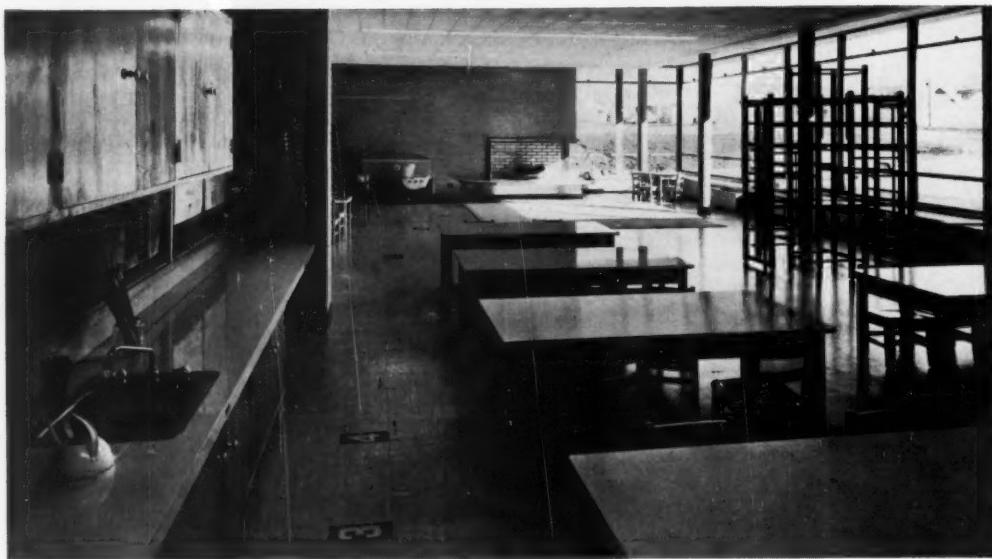


A comprehensive high school for over 1200 students was fitted onto this sloping 4-acre site which also contains a city hall and city library. Three-story academic wing was placed on crest of slope connected to auditorium; shops, gym and cafeteria are on face of slope. (Passaic, New Jersey, High School; designed by Kelly & Gruzen)

Another school goes up where it cannot spread out. On a site of less than 2 acres, the classrooms are raised and suspended over a playcourt. Ground floor wing houses cafeteria - auditorium, kitchen and offices. Corner of the site is left free for outdoor play. (Phillis Wheatley Elementary School; by Charles R. Colbert)



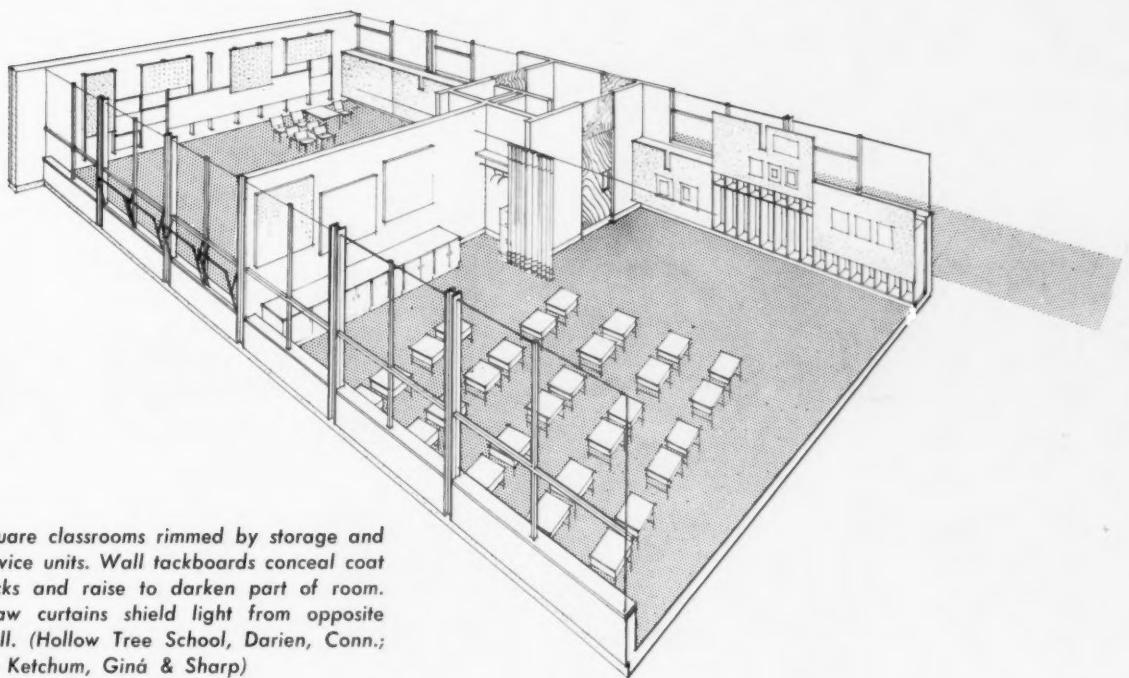
function | relating plan to program: classrooms



Large, airy kindergarten room with sink and storage wall, play equipment and fireplace. Note numerals on asphalt tile floor. (Emerson School, Elmhurst, Ill.; designed by Cone and Dornbusch)

Primary classroom has storage and work counters banked against three walls leaving floor space free for various seating arrangements. (Marcus, Iowa, Elementary School; by Smith, Voorhees, Jensen, Silletto & Associates)





Square classrooms rimmed by storage and service units. Wall tackboards conceal coat racks and raise to darken part of room. Draw curtains shield light from opposite wall. (Hollow Tree School, Darien, Conn.; by Ketchum, Ginn & Sharp)

With its work cabinets, sink, storage facilities, large floor space and permitted rearrangements of seating, this high school classroom appears to be a true laboratory for learning. (West Charlotte, N.C., High School; designed by Graves & Toy)



function | relating plan to program: science and shop rooms

Roger Sturtevant

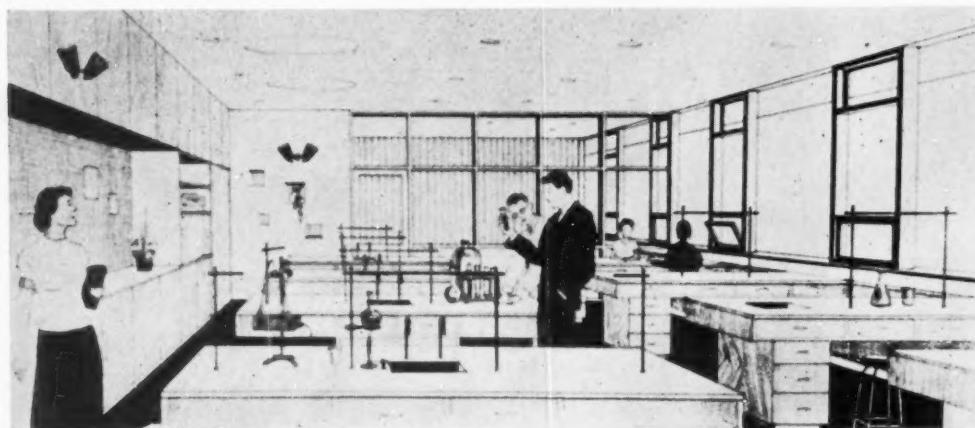


Chemistry room with special apparatus along lateral walls. Main portion of floor is left clear, thus room is usable for other subjects. (Healdsburg, Cal., High School; designed by Falk & Booth)

Well-lighted chemistry-physics laboratory. (West Charlotte, N.C., High School; by Graves & Toy)



Science laboratory adjacent to science lecture room. (Lutheran High School, Wauwatosa, Wisc.; designed by Grassold-Johnson & Associates)





Shop facilities in the "sun-work room" attached to the first and second grade rooms. (North Elementary School, Cedar City, Utah; by L. Robert Gardner)

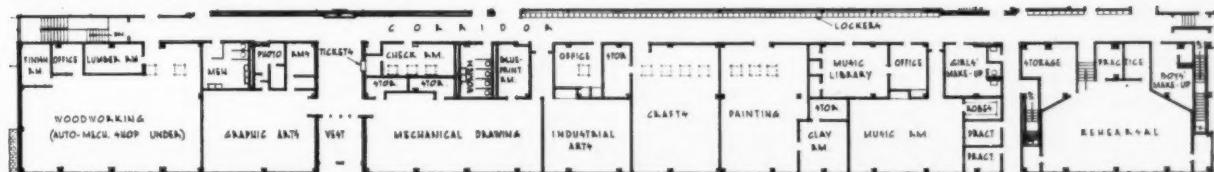


Agricultural classroom opens off agricultural shop. (Cumberland Valley High School, Silver Spring Township, Pa.; designed by Edmund Geo. Good, Jr.)



Large arts and crafts department designed so that several groups can work in the area independently. (Bessemer, Ala., Junior High School; designed by Wilmot C. Douglas)

High School vocational shop wing. It also includes large machine shop located across corridor from woodworking shop. Note music rehearsal and practice rooms at right. (Passaic, N.J. High School; by Kelly & Gruzen)

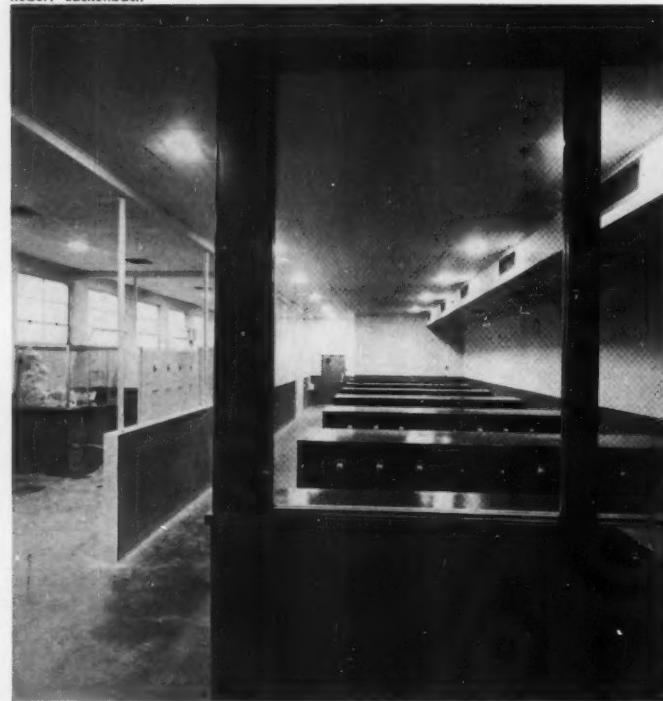


function | relating plan to program: auxiliary spaces

Folding doors partition gymnasium for simultaneous use by two groups. (May Goodrell Junior High School, Des Moines, Iowa; by Wetherell & Harrison)



Robert Lackenbach



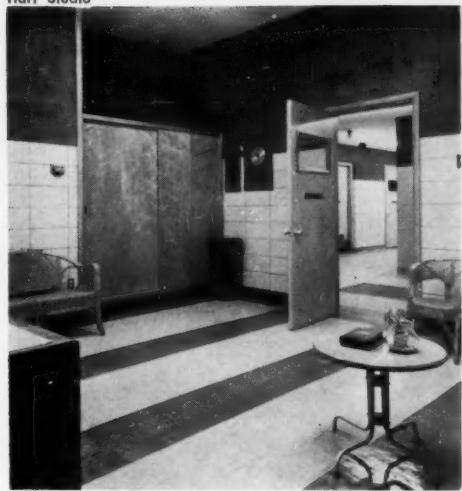
Locker area contains space for 350 lockers. Note towel-dispensing booth. (Boys' Gym, Liberty Union High School, Brentwood, Cal.; by Young & Lloyd)

Charthe Studio



Circular auditorium provides good viewing and audio reception from all areas. (Cocoa, Florida, High School; by Griffin & Gomon)

Hart Studio



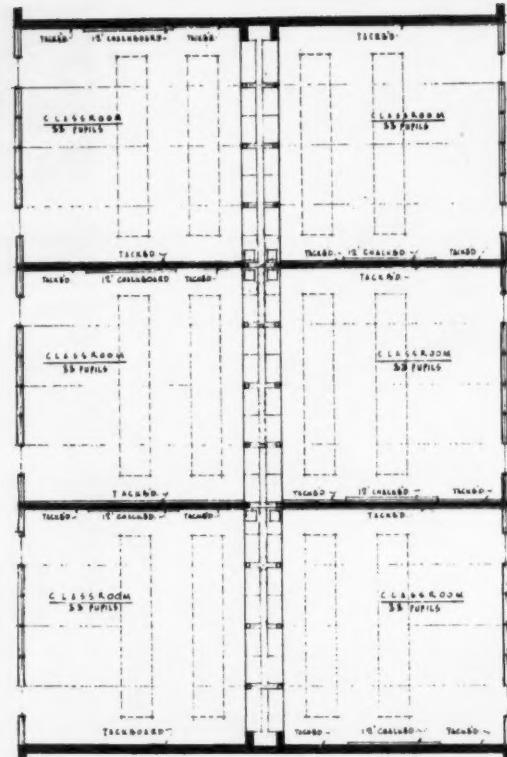
Large health and office room also doubles as teachers' lounge. (South Elementary School, Nappanee, Ind.; by Alves D. O'Keefe)

Band room with tiered platform and two adjacent practice rooms. This school also includes instrumental music and choral rooms. (Chemawa Junior High School, Riverside, Cal.; designed by Herman O. Ruhnau)

Julius Shulman



function | allowing for program changes

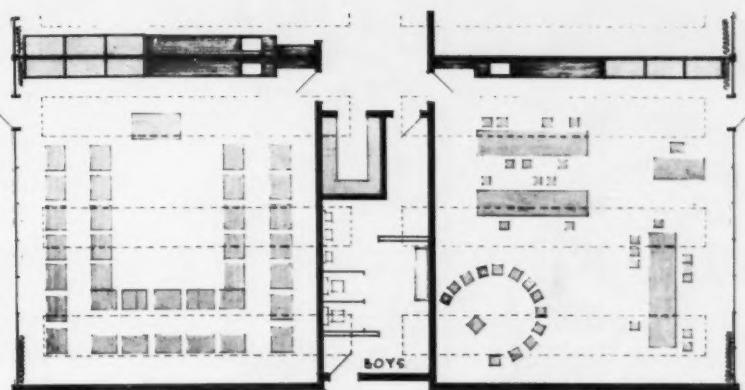


With structural columns located at 8-foot modules, all interior partitions in this school can be removed without affecting the structure. Mechanical core runs between classroom rows. (Del Norte School, West Covina, Cal.; designed by Flewelling & Moody)

Large square classroom with storage cabinets, closets and work counters around periphery leaves unencumbered floor area easily adaptable to changing teaching situations. (South Elementary School, Nappanee, Ind.; by Alves D. O'Keefe)



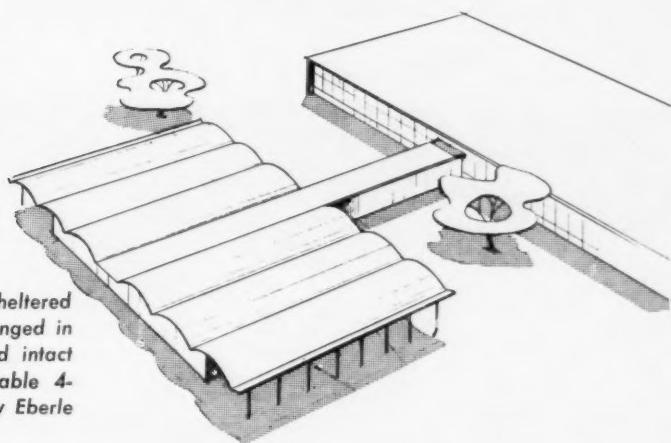
Hart Studio



With square shaped room and high level diffused lighting, furniture arrangement is flexible. Electrically-operated light louvres and draw drapes permit quick darkout. (Kenmore, Wash., Elementary School; designed by Ralph Burkhard)

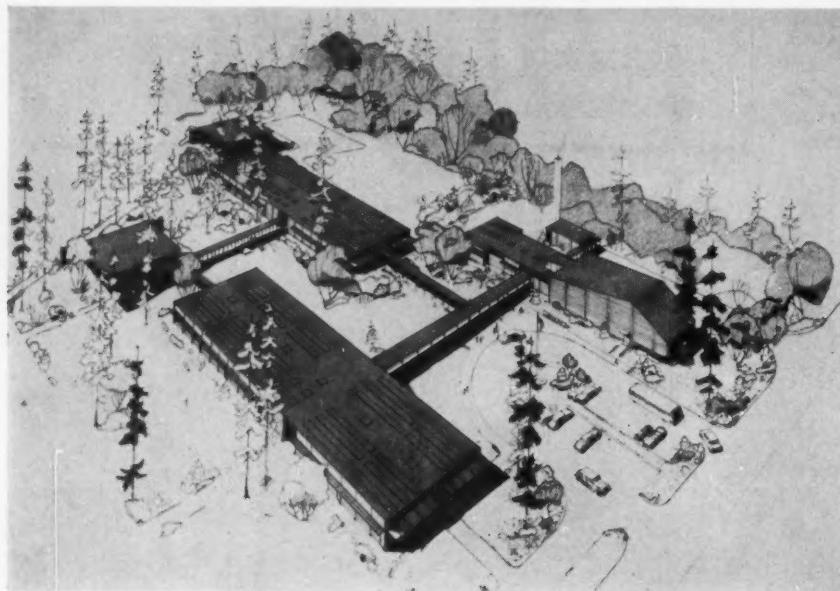


Movable partitions at eye-level divide classroom areas on the theory that sound transmission will not interfere with instruction. This allows maximum flexibility as program changes. (North Elementary School, Chelsea, Mich.; designed by Louis C. Kingscott & Associates)



Self-contained 4-classroom unit with adjacent sheltered play porch can be combined in clusters and arranged in a variety of patterns. It can also be transported intact to keep pace with population shifts. (Transportable 4-Classroom Elementary School, Dearborn, Mich.; by Eberle M. Smith Associates)

function | group separation by age and subject

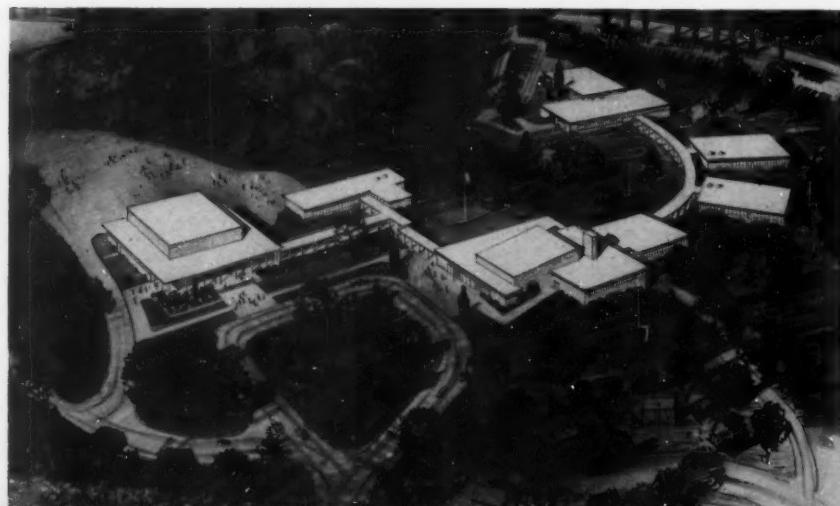


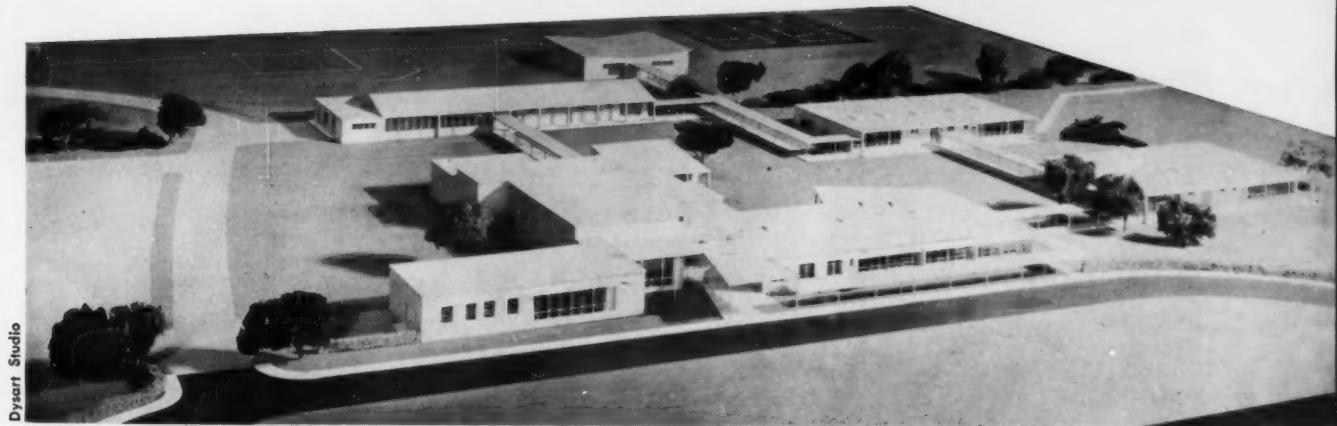
Classroom building, multi-purpose building, administration and service building are connected by protected corridors. (Lakeview Elementary School, Mercer Island, Wash.; by Bassetti, Morse & Aitken)

One-story finger-plan school houses 34 classrooms segregated by age groups. (Hudson Falls, N.Y., Jr.-Sr. High School; by Sargent-Webster-Crenshaw & Folley)



Unit type academic high school (Junior - Senior High School, Greenburgh, N.Y.; by Warren H. Ashley)





Campus plan for senior high school on 30-acre site. Five separate buildings, connected by covered walks, house different subjects. Core facilities are adequate for increased capacity for which space has been allowed for additional buildings. (Kennett, Missouri, High School; designed by R. Paul Buchmueller)



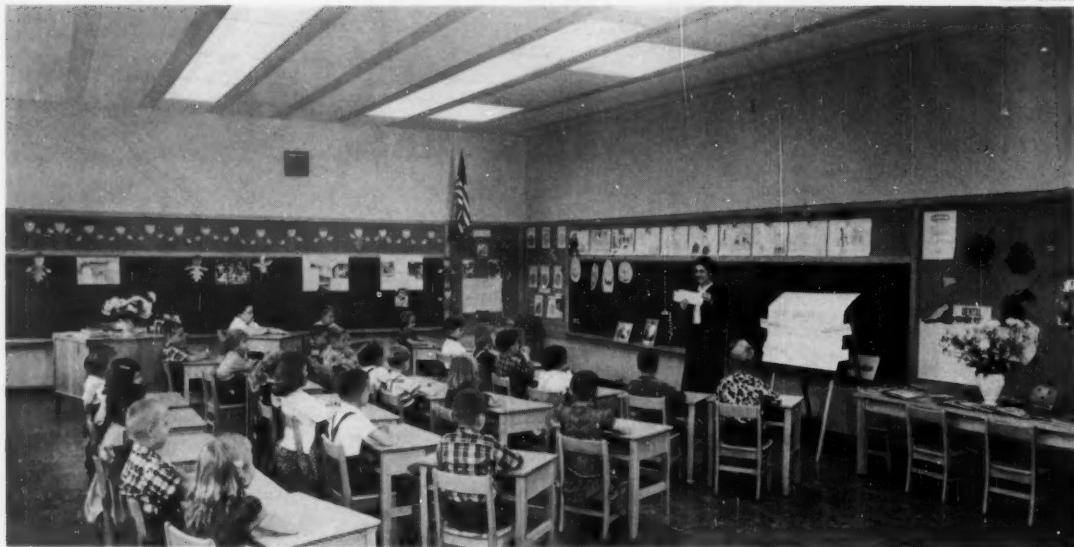
Campus plan with five basic units. (East Hartford, Conn., High School; by Nichols & Butterfield and Perkins & Will)

Campus plan with separate classroom wings connected by open corridors. Facilities can be expanded to house double the present enrollment. (Cocoa, Florida, High School; by Griffin & Gomon)



function | engineering: source of lighting

Ken Smith



Daylight is admitted through pattern of plastic skydomes and glass block and vision strip exterior walls, augmented by fluorescent lighting. (Highland Elementary School, Highland Park, Pa.; by Edmund Geo. Good, Jr.)

Luminous plastic ceiling admits even overhead light throughout classroom, even in work alcove. (Dan H. White Elementary School, Rio Vista, Cal.; by Donald Beach Kirby & Associates)

Pirkle Jones





High windows at left illuminate corridor and feed light into classrooms at right. (Middleton, Wisc., State Graded School; by John J. Flad & Associates)



Skylighted corridor admits bi-lateral lighting into classrooms on either side. (Sherman Elementary School, Tacoma, Wash.; by Robert Billsbrough Price)

Dearborn-Mosar

Plastic skylights and incandescent lights admit light to classroom through suspended plastic ceiling. (Kenmore, Wash., Elementary School; designed by Ralph H. Burkhard)

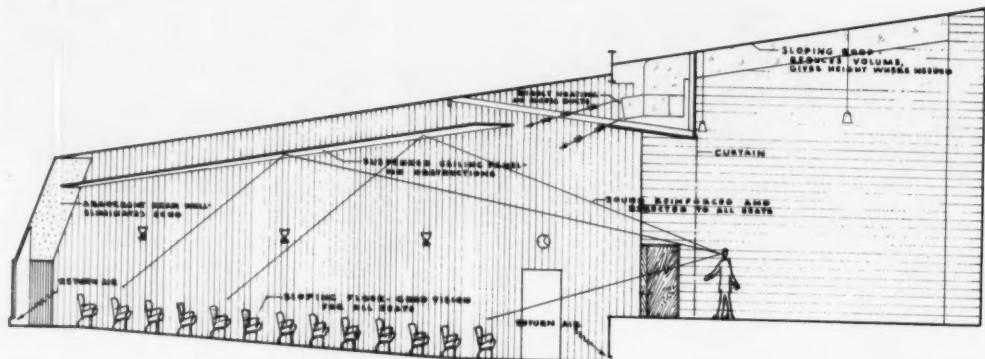


Glass blocks above vision strip admit light without glare (South Elementary School, Nappanee, Ind.; by Alves D. O'Keefe)

Hart Studio



function | engineering: control of sound and light



Suspended ceiling panel in auditorium reinforces sound from stage and directs it to all seats. Absorbent rear wall eliminates echo. (Edgemont Junior-Senior High School, Greenburgh, N.Y.; designed by Warren H. Ashley)



Acoustic tile covers classroom ceiling. (Arthur H. Smith Elementary School, Grandview, Wash. by John S. Villevik)



Acoustic tile ceiling runs the length of corridor. (San Marcos, Texas, Junior High School; by Harvey P. Smith & Associates)



Dearborn-Massar

Exterior horizontal louvers protect classrooms from strong sunlight. (Sherman Elementary School, Tacoma, Wash.; by Robert Billsbrough Price)

Classrooms are shaded with light-weight metal louvered awning to control glare. (Base Line Junior High School, Boulder, Colo.; designed by James M. Hunter)



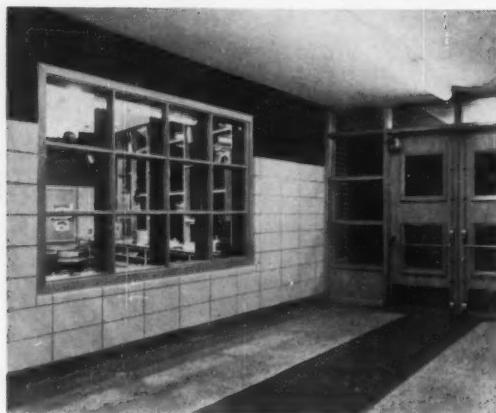
Reynolds

Fibrous panels mounted on strip metal runners serve as tack boards and cloak room cover when down. They are easily raised to cover windows for audio-visual darkout. (Hollow Tree School, Darien, Conn.; by Ketchum, Gina & Sharp)



human values | simple form and unified space

Hart Studio



Observation window in corridor gives passers-by a showcase of classroom activities. (South Elementary School, Nappanee, Ind.; by Alves D. O'Keefe)

Kranzten Studio

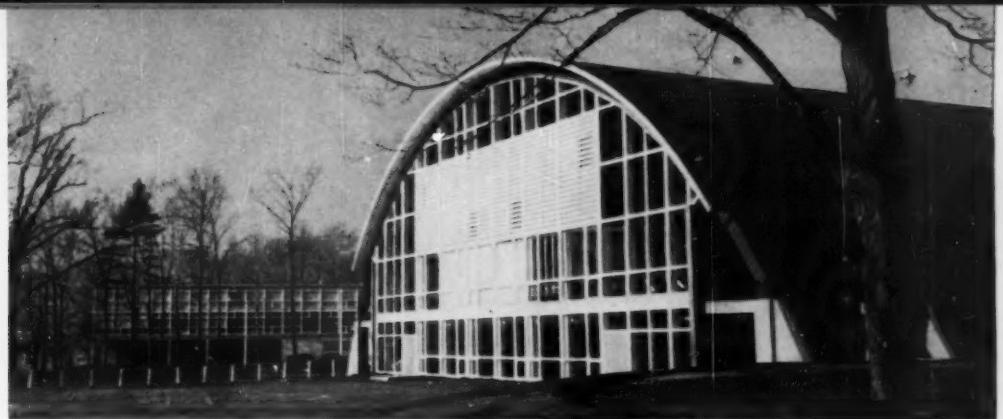


Glass panel above tackboard and beside door creates community effect. (Hoover School, Neenah, Wisc.; by Perkins & Will)

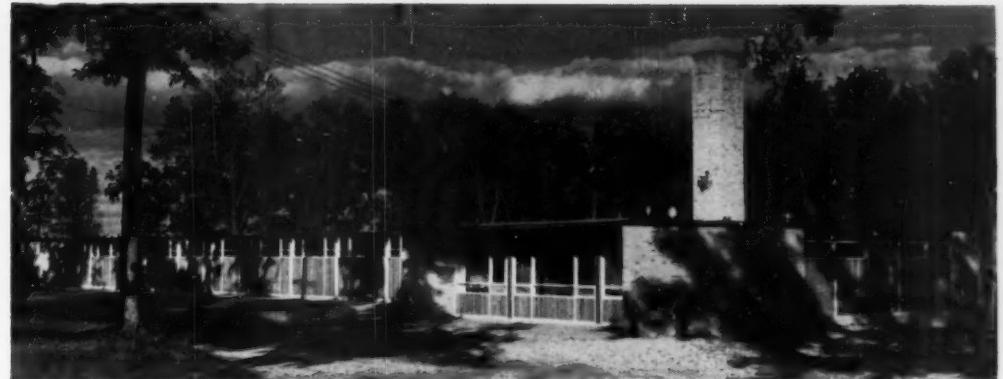
S. T. Lo



Wide corridor with full glass wall opens space to outdoors. (Country Elementary School, Weston, Mass.; by Hugh Stubbins Associates)



William Wollin Studio



Kranzten Studio

Top: Graceful curve of gymnasium contrasts nicely with sleek classroom wing in background; buildings are related by same interesting pattern of fenestration. (East Hartford, Conn., High School; by Nichols & Butterfield and Perkins & Will)

Above: With a facade of redwood siding, plate glass and patches of brick, this cozy school has the appearance of a smart contemporary home. (Middleton, Wisc., State Graded School; by John J. Flad & Associates)

Right: Window wall between administrative office and corridor is inviting to visitors; allows principal to keep his eye on pupils and vice versa. (Blackhawk Elementary School, Park Forest, Ill.; by Perkins & Will)



human values | social living facilities

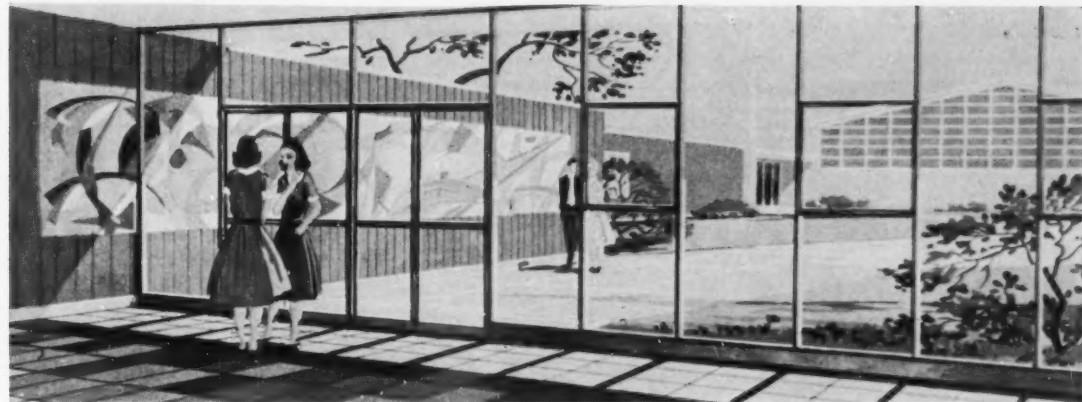


Ken Smith

Faculty lounge—an unusual concession to the teacher's need. (Cumberland Valley High School, Silver Spring Township, Pa.; by Edmund Geo. Good, Jr.)

Home management department is furnished like a comfortable home. Note magazine display rack at left. (Cumberland Valley High School, Silver Spring Township, Pa.; by Edmund Geo. Good, Jr.)





Molitor

Top: Nicely appointed foyer, with floor-to-ceiling windows, overlooks wooded site. (Emerson Elementary School, Elmhurst, Ill.; by Cone & Dornbusch)

Above: With full window wall, auditorium lobby extends visually to outdoor court and provides pleasant space for social intercourse. (Hudson Falls, N.Y., Jr-Sr High School; by Sargent-Webster-Crenshaw & Folley)

Right: Large student center is comfortably appointed and contains exhibit space; it is located near administrative offices, lunchroom and library. Note architectural treatment of screen in foreground. (West Charlotte, N.C. High School; designed by Graves & Toy)

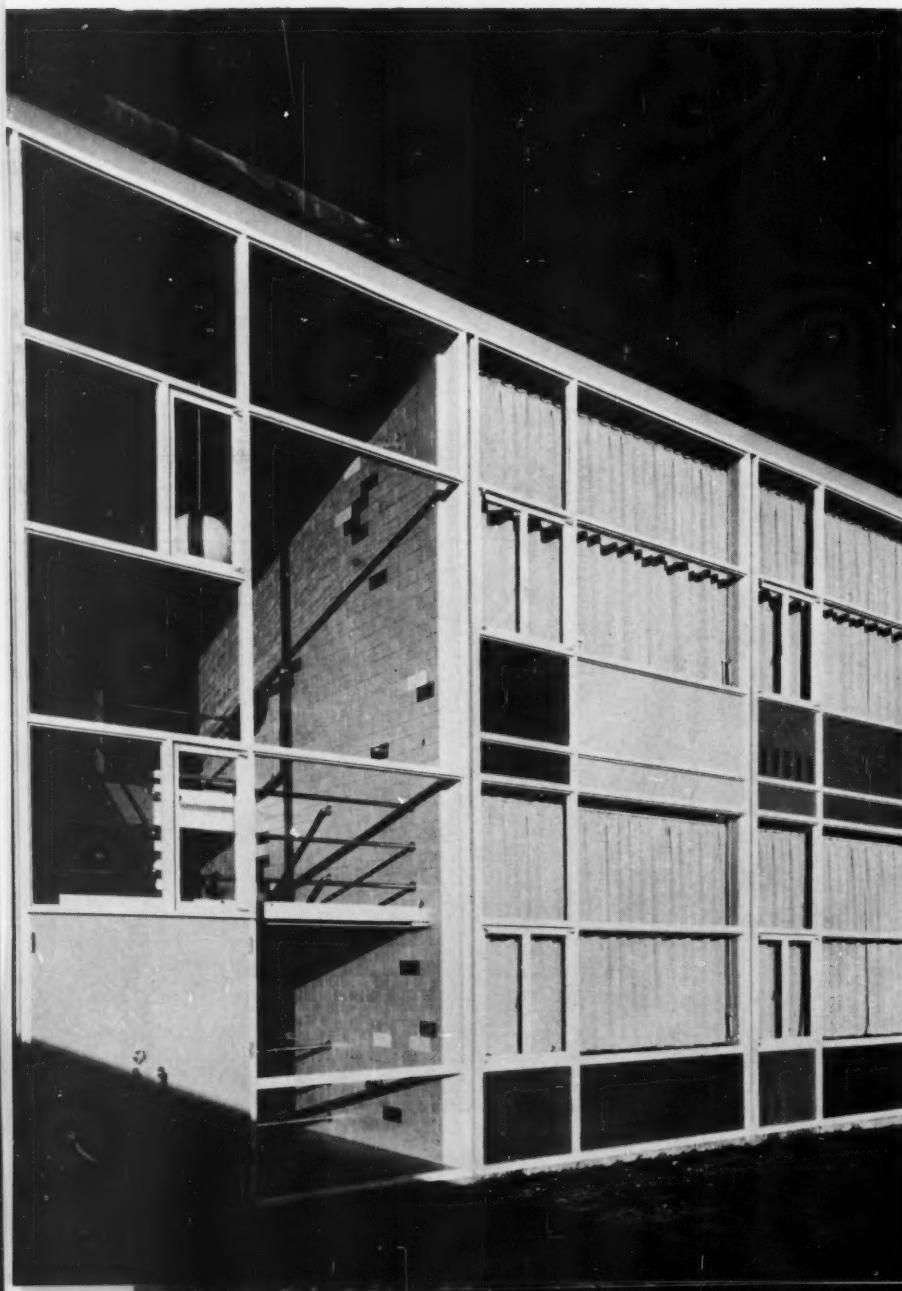


human values | color and beauty

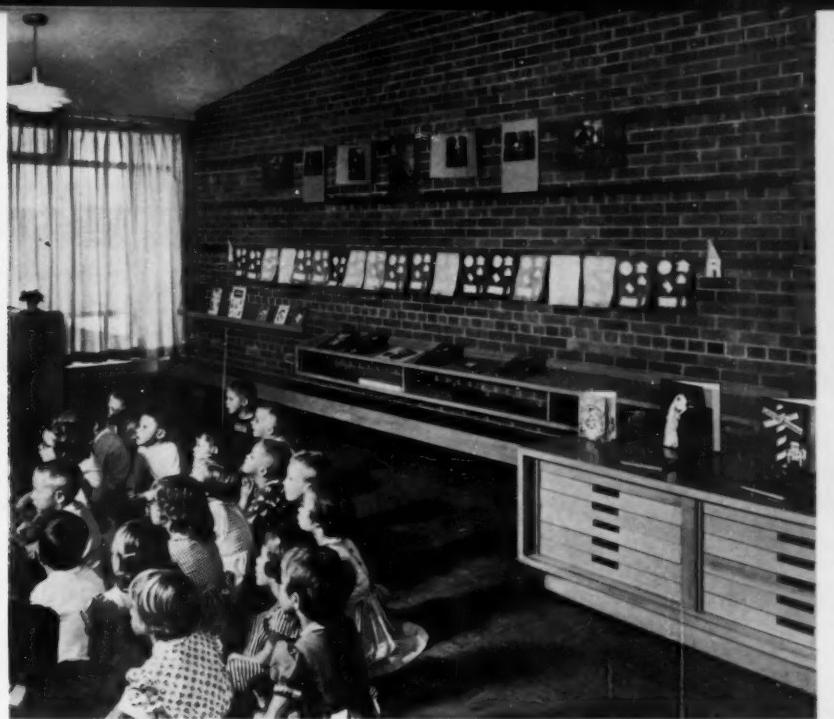


Paul S. Davis

Fred Stone

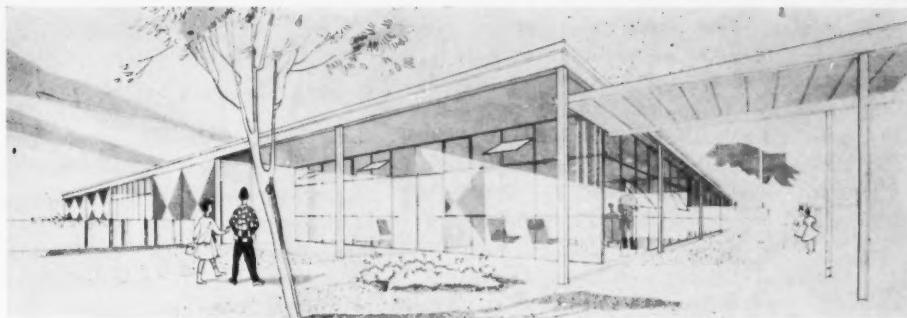


Colorful corridor of interestingly varied materials: flagstone floor, and walls of brick and glazed tile interspersed with colored tiles in random patterns. Exterior of same school (left) shows porcelain panels which are in combinations of blue, green, red and brown. Metal exterior doors are also brightly colored. (James L. Mulcahey School, Taunton, Mass.; designed by The Architects Collaborative)



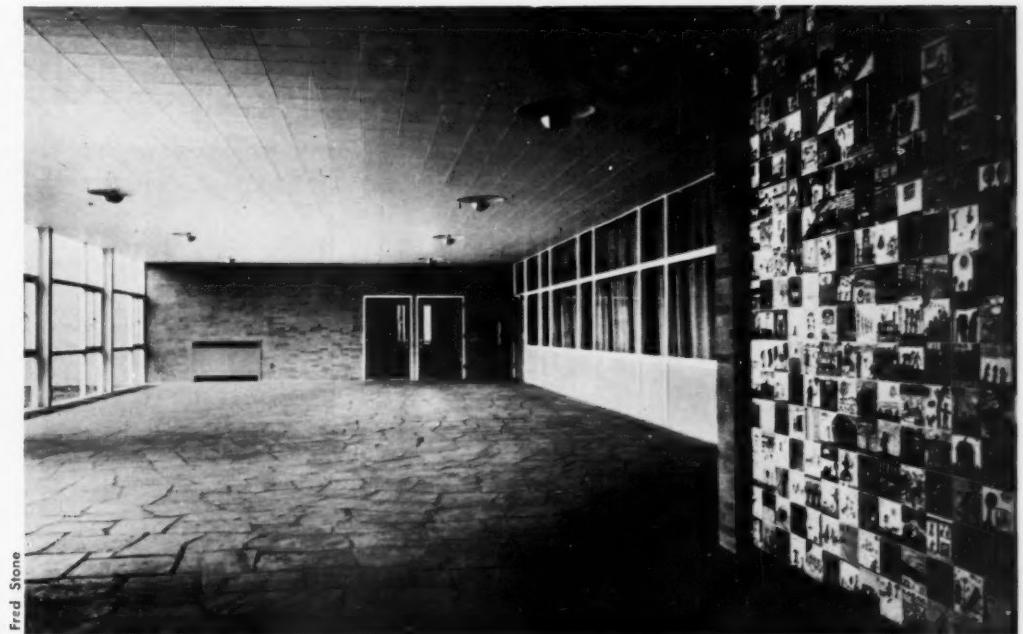
Brick wall provides colorful background for display of children's own art. Modern wood furnishings and window curtains add homey touch. (Hoover School, Neenah, Wisc.; by Perkins & Will)

Kranzten Studio



Structural triangles are exposed and emphasized by exterior decoration. The effect is a harlequin design or, in the children's words, a "kite." (Phillis Wheatley Elementary School, New Orleans; by Charles R. Colbert)

Entrance lobby of James L. Mulcahey School (also pictured on left-hand page) has large panel of tiles painted and glazed by the children in the school under their regular art program.



Fred Stone

SPOTLIGHT

news of the educational field

Report from St. Louis

Hill Calls Education's Troubles "Serious"; Case Asks U. S.-State Action on Salaries

ST. LOUIS—"American education is in serious trouble," Senator Lister Hill, chairman of the Senate Committee on Labor and Public Welfare, told the central regional division of the 81st annual convention of the AASA which met at St. Louis from February 26 to March 2.

The Democratic Senator from Alabama, who has sponsored a bill providing a billion dollars in federal aid for school construction over a two-year period, pointed to the "millions of children attending school on a part-time basis, in makeshift quarters and overcrowded classrooms" as evidence of a "desperate situation."

The western regional meeting of the AASA took place in Denver from March 12 to 16. The eastern regional group is scheduled to meet in Cleveland from April 2 to 6. The convention theme this year is "Education, an Investment in America's Future."

Case wants formula

Another Senator, Republican Clifford P. Case of New Jersey, told the St. Louis group that he believes a formula should be designed by which the Federal Government would provide incentives to states to raise teachers salaries. This could be done,

he stated, "by the granting of a large amount of federal funds in consideration of such progress."

Other speakers addressing the St. Louis convention were Henry I. Willett, superintendent of schools, Richmond, Va., and chairman of the AASA's 1955 Yearbook Commission; Elmer Ellis, acting president of the University of Missouri; Mrs. Newton P. Leonard, Providence, R. I., president of the National Congress of Parents and Teachers; Arch N. Booth, executive vice-president of the U.S. Chamber of Commerce, and Dr. Wesley H. Hager, Minister of Grace Methodist Church, St. Louis, Mo.

The American Education Award of 1955 was presented at the St. Louis convention to Norman Vincent Peale, author and minister of the Marble

Collegiate Church, New York. Accepting the award, which is conferred annually by the Associated Exhibitors of NEA, Dr. Peale stated his belief that the American teacher should receive "the compensation, financial support and sense of security" commensurate with his great responsibility.

As planned for each of the three regional conferences, discussion groups covered key problems of administration, including school finance, recruiting teachers, desegregation, school building and maintenance, school-community relations and district reorganization.

Other groups join in

Participating in the discussion groups were other educational organizations, including the American Educational Research Association, the National School Public Relations Association, the National Congress of Parents and Teachers and the Council of Chief State School Officers.

Eighteen resolutions were presented to the three regional groups, covering education for democracy, for peace and security, and for moral and spiritual values. Other



AASA's regional convention at St. Louis attracted other citizens besides administrators. Attending was Jack Horner, chairman, Carthage, Mo., Citizens Committee for Better



Schools. He paused to compare notes with Mrs. S. J. Ryker, president, St. Louis PTA Council (l.), and to chat with Bill Carlisle, circulation manager, THE SCHOOL EXECUTIVE (r.).

resolutions supported desegregation, professional standards, intermediate district superintendencies, regulation of comic book contents, cooperative planning of educational programs with laymen, better teaching conditions to attract desirable people to the profession, cooperation with the CPEA and other projects that work to improve school administration, and extension of educational television. Included also was a resolution urging that the coming state and White House conferences on education be used to inform the public of the magnitude of current school problems.

Suggest U. S. ed board

Another resolution recommended that a national board of education be created to control the U.S. Office of Education, to keep it free of partisan politics.

Announcement was made at the St. Louis meeting of the appointment of Hilda Maehling of Washington, D. C., as assistant executive-secretary of the NEA. Miss Maehling has been executive secretary of the NEA's Department of Classroom Teachers for twelve years. Mildred S. Fenner who was appointed editor of the *NEA Journal*, has been managing editor of the magazine since 1952.

Bills Aimed at Delinquency Now Before Congress

WASHINGTON—A bill now before Congress would permit state and local authorities to handle some cases where youths have broken federal laws.

This would prevent such youths from being sent to federal institutions many miles away from home.

Another law would allow foster parents to claim income tax exemptions when they have given homes to former delinquents.

A third measure would close international borders to fleeing juvenile delinquents. Law enforcement records show that about 5,000 cross into Mexico every year.

The chances for all three bills passing Congress are good, observers report.

Five Firms Win School Design Awards



Eugene Taylor

St. Louis—Eberle M. Smith, of Eberle M. Smith Associates, Detroit (center) accepts plaque his firm won for design of Transportable Four-Classroom Elementary School, Dearborn, Mich., in *THE SCHOOL EXECUTIVE*'s Fourth Annual Competition for Better School Design. Fred Raubinger, State Commissioner of Education, New Jersey, makes the award (right), while Dearborn's Superintendent of Schools Mark Scully, looks on. Seated on the platform is Walter D. Cocking, editor of *THE SCHOOL EXECUTIVE*, who served as master of ceremonies.

Other top award winners, whose school building designs the competition jury considered outstanding solutions to particular problems, were Charles R. Colbert, New Orleans; Graves & Toy, Charlotte, N. C.; Kelly & Gruzen, Newark, New York and Boston and Ketchum, Gina & Sharp, New York (see March, page 49; April, page 69).

Over 2,000 Professionals and Laymen To Take Part in WH Conference

WASHINGTON—Over 2,000 persons are expected to participate in the White House Conference on Education November 28-December 1, reports the Committee setting up the national meeting on educational problems.

Seventy per cent of these, or 1,400 persons, will be apportioned among the states and territories, who will select participants "with no interference from the outside."

The Committee suggested, however, that each state have a selection committee to agree on basic criteria before choosing representatives.

The remaining 30 percent would represent organizations which have participated in state or territorial conferences, members of Congress with legislative responsibilities for education, foreign observers and others selected by the Committee.

The following standards were recommended by the Committee in selecting representatives:

- diversified racial, religious, political, social and economic back-

grounds

- state groups to consist largely of individuals who took part in state and local conferences
- preferably two or more laymen to every educator
- the responsibility for attesting to the Committee the names of participants to rest with the person selected by the Governor to take care of funds received from the Federal Government to help pay for the delegation's participation in the conference.

Single interests in education (i.e. school buildings, curriculum, fi-



nances, teachers, etc.) should not dominate state groups, the WHCE committee advised also.

Subcommittees of the WHCE Committee will study these six subjects which will also be discussed at the national conference by panels of no more than eleven persons, a procedure adopted to assure maximum opportunities for participation.

The WHCE Committee's report to the President on the significant and pressing problems in the field of education will be based on studies by the Committee itself, findings and reports of state conferences and the results of the White House Conference.

AASA's monthly newsletter, *The School Administrator*, has added its support to that of publications of other national organizations with state affiliates.

NCCPS Plans Successor, Extends Charter

NEW YORK—The National Citizens Commission for the Public Schools, set to disband next month, has extended its charter through January 31, 1956.

According to Roy E. Larsen, Commission chairman and president of Time Inc., the decision was made "so that our Commission can help inspire Americans on the local level to sit down together and discuss the problems facing their public schools and find solutions for them."

Catalyst and clearinghouse

"The year 1955," he said, "promises to be a most important one for education and our Commission believes that it will be serving the public good to continue its operations as a catalyst and as a clearinghouse of information during this important period of decision."

At the same time, the Commission announced plans for a successor organization to carry on its work of alerting Americans to the problems of the public schools and inspiring local action for their improvement. The new group will operate concurrently with the Commission until its charter expires early in 1956.

Tentatively called the National

To inspire local action

Community Conferences on Education Is Goal of NSBA, NCCPS Program

NEW YORK—The National Citizens Commission for the Public Schools and the National School Boards Association have set up a program to inspire and service "a conference on education in every community" in order to fortify President Eisenhower's program for state-wide and territorial education conferences culminating in the White House Conference on Education November 28-December 1, 1955.

NSBA, an organization composed of state school board associations, will take the initiative in providing "on-the-spot" assistance to community leaders planning conferences on their schools.

Both NCCPS and the school boards group will work closely together—the former inspiring conferences through the nation-wide Better Schools advertising campaign, and the latter through a program of field service.

Activities of the Commission will include the following:

- encouragement of the Better School advertising campaign, with emphasis

Citizens Council for Public Schools, the new association would be made up of educational laymen of varying backgrounds from all over the nation.

Carnegie grants aid

The Carnegie Corporation, a large source of financial support for NCCPS, has granted \$500,000 for the new association.

During its six-year lifetime, NCCPS has seen citizens' committees grow from a handful in 1949 to nearly 10,000 today.

sis on community talks

- publication of materials on the value of these talks, with a new working guide, *How Can We Discuss School Problems?* as a key piece.
- publication of a special newspaper with information on local and state conferences
- promotion of mass media coverage of news from local, state and national conferences on education
- encouragements of other organizations to work with NSBA.

The school boards group has set up a field staff to consult with local organizations and individuals, and to encourage and assist with the community-wide meetings.

Heading the staff is Maurice Stapley, director of NSBA projects, on leave of absence as assistant dean, School of Education, Indiana University, Bloomington.

The Fund for the Advancement of Education has granted \$250,000 to finance the project.

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SPOTLIGHT

NEA Denver Conference Highlights "Better Teaching"

WASHINGTON—Approximately 500 delegates are expected to attend the Third Regional Instructional Conference in Denver, April 18-21, announced William G. Carr, NEA executive secretary.

They will consist of administra-

tors, supervisors, college teachers and administrators, classroom teachers, parents and others interested in education.

The conference program, still in the blueprint stage, will be built around the theme, "Better Teaching." Major addresses will be on such subjects as: educational objectives, the impact of these times on children, current fundamentals for children and the challenge of the times to our American schools.

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Portland 7, Ore. Washington 5, D. C. San Juan 23, P. R.

Other highlights of the program will be experience-sharing groups, departmental workshops and sessions on pioneering instructional practices.

State and local education associations, institutions of higher learning, as well as other organizations interested in education in the western states, will cooperate with NEA and its departments in sponsoring the spring conference.

States participating are: Wyoming, Colorado, New Mexico, Kansas, Utah, Nevada, Arizona, Montana.

Invite Youth into Community Life—Cut Delinquency

NEW YORK — Can juvenile delinquency be diminished by providing fuller opportunities for teen-agers to take part in community affairs?

This question received full attention recently at a conference of educators, directors of social service agencies and centers, parent and citizen group leaders and others interested in the problem.

In involving youth in community affairs, it is "important to connect reality with responsibility," emphasized Max Wolff, director, Study Center in Community Participation, New School for Social Research, under whose sponsorship the conference was held.

He referred to such citizenship experiments as mayor for a day and "phony conventions."

Emphasize effectiveness

To win the participation of the teen-ager in community affairs "he must be sure that there is a job for him, that he is welcome and has the assurance that he can be effective," Dr. Wolff stressed.

Efforts to combat juvenile delinquency in Yonkers, a New York city with 152,800 population, are handicapped by the fact that only one psychologist and two guidance counselors are assigned to the schools, reported Hugh MacIntyre, principal, Roosevelt High School, Yonkers.

"We know what to do, but don't have the assistance," he declared.

Mr. MacIntyre gave examples

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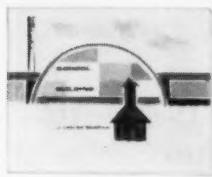
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April, 1955

SPOTLIGHT

Administrators flying to Cleveland for the AASA eastern regional convention, April 2-6, may enjoy this air view of Cleveland Terminal Tower with stadium and public auditorium in rear (see story page 102).

where the students in his school took the initiative and worked with parents and teachers to help solve problems.

In explaining the hostilities of teen-agers towards the adult world, Howard Lane, professor of education, New York University, described youth as having "all kinds of responsibility and no authority."

"They're angry because they must pay \$50 more in insurance to drive a car, especially since most of them drive better than their fathers. . . .

"They find it illegal to be young in this city."

Need to belong

He explained the results of a study among teen-age boys, which showed their vital need to feel effective and to belong to the community.

"What we need is the ability to use our resources. There are plenty of empty rooms and adults who need to be needed also."

"Most of the youth who cause these problems are the offsprings of rejected parents."

Russell Hogrefe, executive director, Riverside Community House, described his work with street gangs, and his discovery that "gang members" want recognition from adults.

They are often so "desperate" that they seek recognition through "notoriety," he emphasized.

In commenting on the conference's topic, "Can Youth Take Part?" Harry Shulman, first deputy commissioner,

Department of Correction, New York City, emphasized that the question is not one of participation, *per se*.

"We know that organized crime involves participation. The question is rather how can we get participation for socially acceptable ends."

Others on the speakers panel were a juvenile court judge, an assistant district attorney, a psychologist, and a community center director.

"Religious Heritage" Taught To Indianapolis Students

INDIANAPOLIS—Units on "religious heritage" have been introduced into the seventh and eighth-grade curriculum here, reports H. L. Shibler, superintendent of schools.

"They do not teach religion. They teach about religion," according to Mr. Shibler.

The materials are being tried in ten of the city's schools. The course fits into the social studies program.

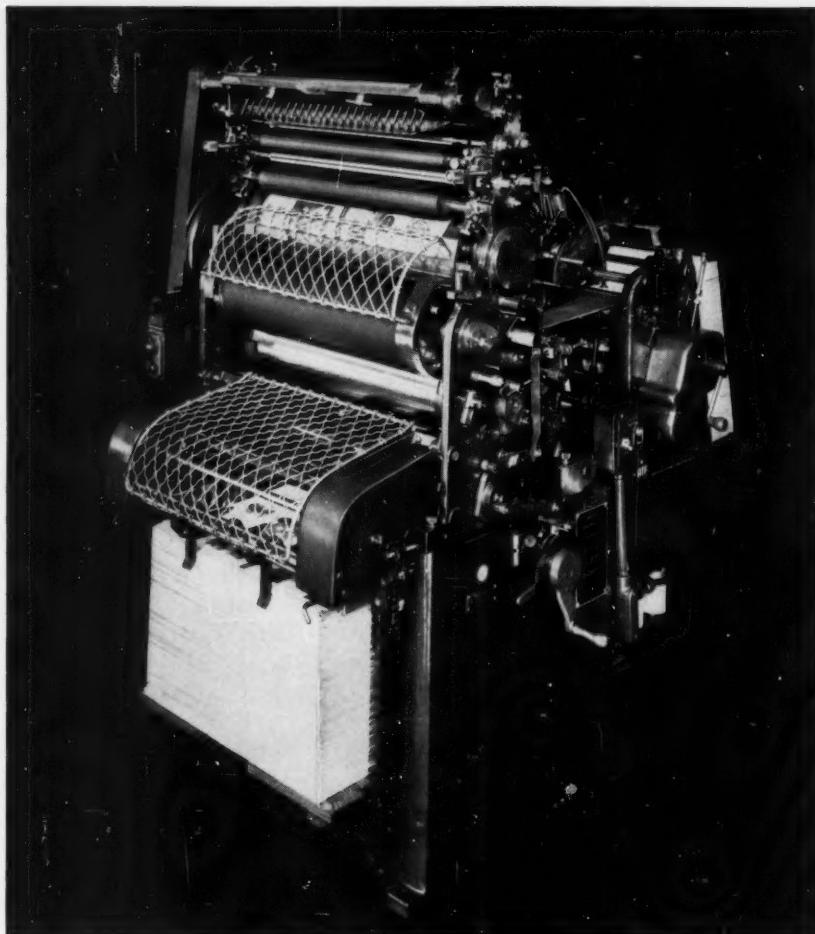
The seventh-grade unit is called "Our Religious Heritage." Among its objectives are to help pupils understand the search of the Europeans for religious freedom and the influence religion had upon the founding of America and the history of the country.

In the eighth-grade course, "Religious Influences in the Development of Liberty," pupils are to learn how religious groups influenced the writing of the Constitution and the Bill of Rights, the connection be-

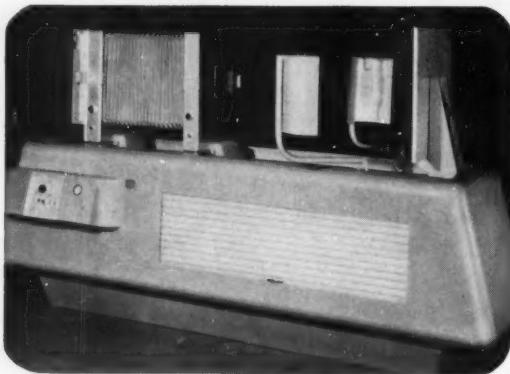
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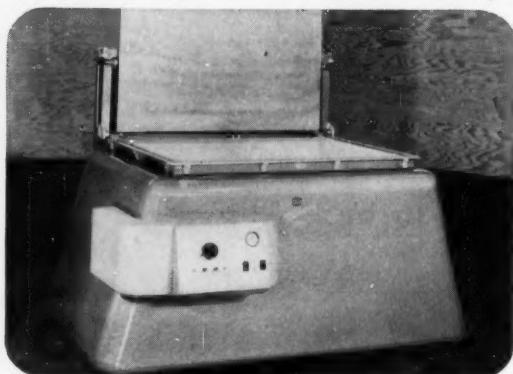
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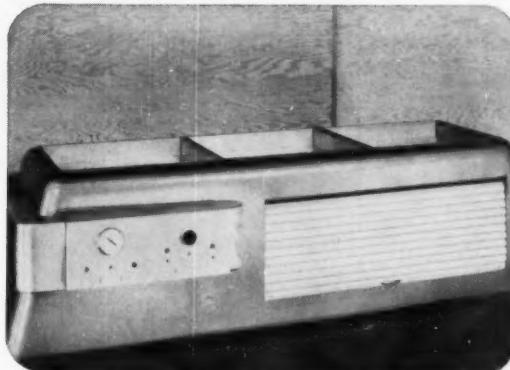
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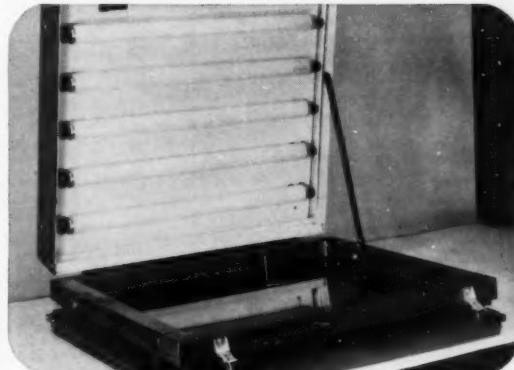
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For Every Type
of Projection . . .



ELIMINATES DOUBLE EQUIPMENT AND MAINTENANCE

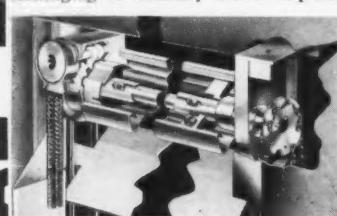
One unit gives complete light control of sun and glare and still darkens for visual education work. It does the whole job and costs less.

CHAIN OPERATED

No cords to wear out and require replacement.

REMOVABLE SLATS

Just lift them out, clean and slip back in. No complicated unstringing and restringing as ordinary blinds require.



CONTROLLED TRAVEL!

Slats travel up or down within a special molded metal channel. This controlled travel feature prevents blind from blowing and banging in the wind.

LIGHT CONTROL SHIELDS

A cleverly-designed device which presses the blinds' slats tightly against the channels. Mackin's Light Control Shields are simple triangular strips mounted vertically—one at each side of the blind.

Mackin Visual Education Blinds have been accepted and installed in hundreds of classrooms across the nation.

Get The FACTS . . . NOW!

For Complete Information on Mackin "Top Efficiency" Visual Education Blinds . . . Just Mail the Coupon Below.

**MACKIN VENETIAN BLIND CO.,
Muncie, Ind.**

Please Rush Details To:

Name.....

School.....

Address.....

City..... Zone..... State.....

SPOTLIGHT

tween religion and an oath of office, and history-making public addresses in which leaders have invoked God's aid.

Atlantic Carries Article on Text Selection and Criticism

BOSTON—The February issue of *Atlantic Monthly* magazine carried *Textbooks Under Fire*, an article by Virgil M. Rogers, dean, School of Education, Syracuse University, Syracuse, N. Y.

The purpose of the article was to point out some of the problems in selecting textbooks and to urge more and better communication among those concerned with this subject.

Of prime importance in selecting textbooks is the suitability of content for the students who will use them and the appropriateness in advancing the purpose of instruction, writes Dr. Rogers.

Then come questions of printing, illustrations and wearing qualities, he adds.

The educational purposes of using textbooks to meet individual pupil differences, to broaden range of ideas and to balance points of view of textbook authors are often the reasons most teachers today select their class texts, Dr. Rogers declares.

One answer to unfounded attacks on specific texts as "subversive," the author feels, is increased communication between home and school, from which can come more understanding.

Wants Time Off for Children To Visit Dentist

WASHINGTON—Children should get time off from school to visit the dentist, declares Dr. Leonard Mencser, Connecticut Health Department, in *Public Health Reports*, official publication of the U. S. Public Health Service.

"A dental appointment after a long and perhaps difficult day at school might be more than some children could bear emotionally," feels Dr. Mencser. "A dentist works best on

SE-342

NEW!

'Sexauer' Monel Self-Locking babb screw —10 sizes do the work of 37!

NEW!

'Sexauer' Easy-Tite faucet washer with Fiberglas reinforcing

This nylon plug locks the screw automatically!

NEW! Amazing, patented screw and washer combination cuts faucet washer replacements 75%

—with each leak eliminated, you reduce water and fuel bills up to \$28.80 quarterly

Most faucet washer failures are caused by wrong length screws. 'Sexauer' Self-Locking screws* and Easy-Tite washers*—used together—cut costly washer replacements 75%! You save up to \$28.80 quarterly in water and fuel alone with each leak stopped. Here's how . . .

A screw too short for the tapping distorts and splits the washer when tightened; the washer works loose, is torn to shreds. If too long, it can't grip the washer; this ruins the washer and causes hammering in the water line.

Simplifies fitting problem—cuts installation costs

NYLON PLUG 'Sexauer' Self - Locking screws eliminate the problem of misfit screws. They lock automatically at the required depth as the nylon plug is compressed in the faucet thread. The washer is not distorted, is held firmly.

You can re-use Self-Locking babb screws repeatedly. Made of Monel, they resist corrosion, never rust; heads won't twist off, screw driver will not distort the slot.

Self-Locking screws save time spent in fitting the proper length—10 sizes do the work of 37! Used with new, Fiberglas-reinforced 'Sexauer' Easy-Tites, they cut washer replacements 75%, fixtures last longer. Easy-Tites resist closing squeeze and excessively hot water, outlast ordinary washers 6 to 1!

Water and fuel savings

One dripping faucet wastes 8,000 gals. of water yearly. A pinhole size stream increases waste to 8,000 gals. in a single month! Here is what you save quarterly in stopping just one pinhole leak on a hot water faucet:

Fuel Saving	Water Saving	Total Saving
Oil (198 gals.)	\$22.77	\$6.03
Coal (2,469 lbs.)	22.22	6.03
Gas (21,103 cu. ft.)	21.20	6.03
		27.23

Save water, fuel and labor costs; conserve costly fixtures by cutting washer replacements 75%! Use new 'Sexauer' Self-Locking screws and Easy-Tite faucet washers. You save every time you do!

WRITE FOR CATALOG. New 'Sexauer' Self-Locking screws and Easy-Tite washers are just part of the line of over 3,000 'Sexauer' Triple-Wear plumbing repair parts and patented precision tools. Send for our new, 126-page Catalog H.

Write today!



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SEXAUER
WORLD'S LEADING SPECIALISTS IN
PLUMBING AND HEATING REPAIR PARTS

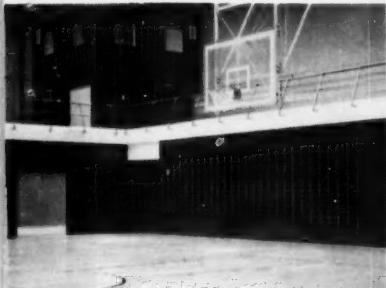
THE SCHOOL EXECUTIVE



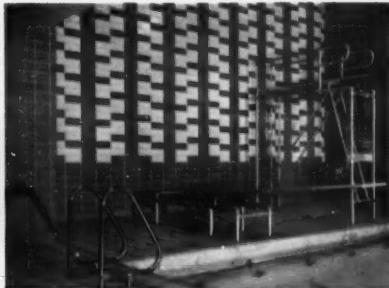
**Cost-cutting combination: GLAZED and UNGLAZED
STRUCTURAL FACING TILE**

Here is a way to keep school building and maintenance costs down — and make classrooms more cheerful, too.

Structural Clay Facing Tile builds load-bearing partitions and permanent, colorful interior finish in one operation. For this kindergarten, natural clay unglazed units and soft green glazed tile provide a pleasing contrast of colors and textures.



St. Patrick High School, Chicago, Ill.
Edo J. Belli, Architect



Y.M.C.A. Swimming Pool, Oak Park, Ill.
Philip D. West, Architect



Lincoln Elementary School, Sterling, Ill.
Louis Kingscott & Associates, Architects

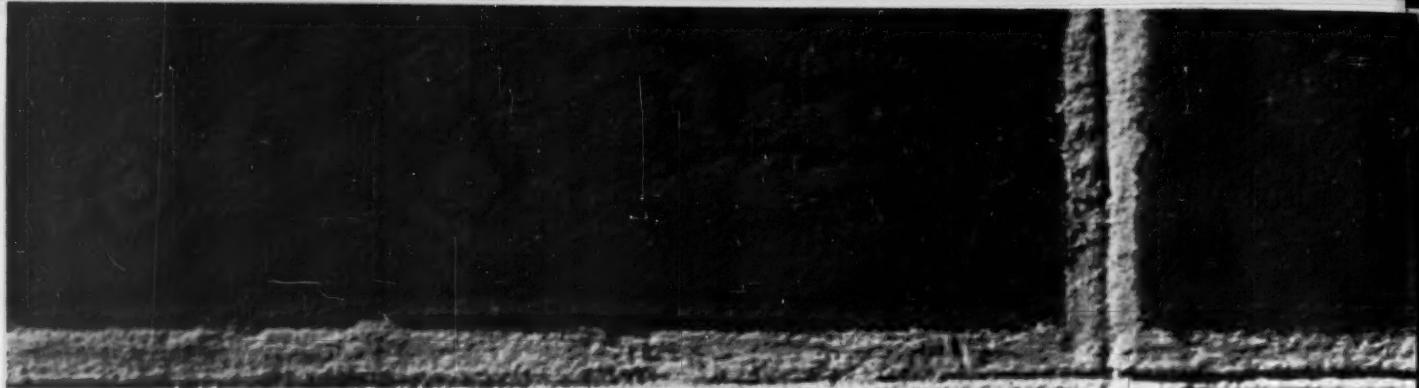


This seal is your
assurance of highest
quality Facing Tile.

FACING TILE INSTITUTE

1520 18th Street, N. W., Hudson 3-4200, Washington 6, D. C.

In the interest of better Facing Tile construction these companies have contributed to this advertisement. CHARLESTON CLAY PRODUCTS CO., Charleston 22, W. Va. • THE CLAYCRAFT CO., Columbus 16, Ohio • MAPLETON CLAY PRODUCTS CO., Canton, Ohio • METROPOLITAN BRICK, INC., Canton 2, Ohio • McNEES-KITTANNING CO., Kittanning, Pa. • NATCO CORPORATION, Pittsburgh 22, Pa. • STARK CERAMICS, INC., Canton 1, Ohio • WEST VIRGINIA BRICK CO., Charleston 24, W. Va.



Brick's enduring beauty costs no more...

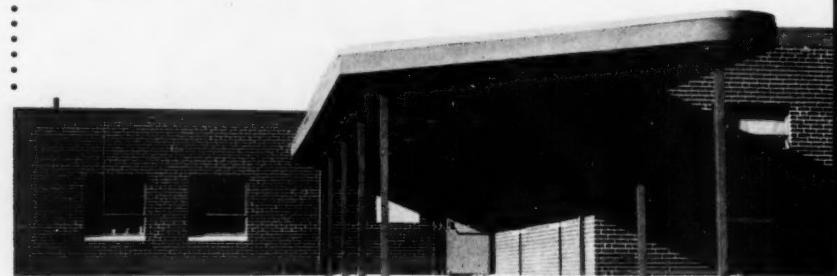
Brick is a perennial favorite among school architects because it combines sound, fire-safe construction, warm, friendly appearance and lasting freedom from maintenance costs.

But what about initial costs? The answer is that they are a lot lower than most people assume. In many regions, brick and tile construction costs compete directly with those of less permanent and less attractive materials.

For proof, write for a new study by the Structural Clay Products Research Foundation of comparative costs in nine new Midwestern schools.

Structural Clay Products Institute

1520 18th Street, N. W., Washington 6, D. C.



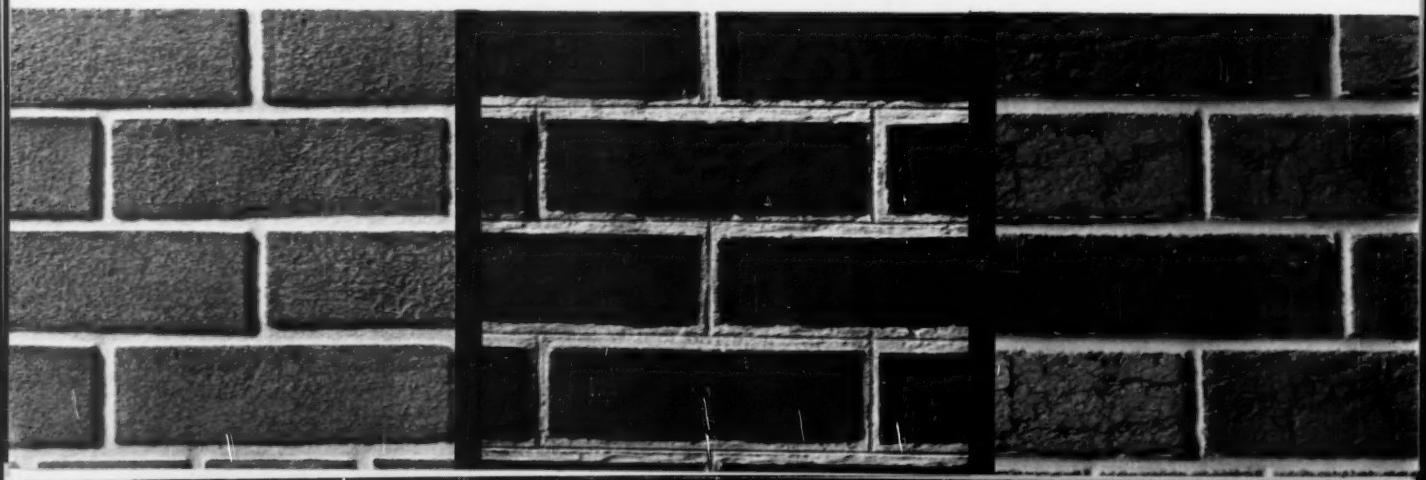
Boonville-Boone Township School,
Evansville, Ind.
Ralph Legeman Associates, architects

\$9.82
Cost: \$9.82 per sq. ft., total
\$6.67 per sq. ft., structural
\$3.15 per sq. ft., mechanical



Glenwood School, Evansville, Ind.
Ralph Legeman, architect

\$9.47
Cost: \$9.47 per sq. ft., total
\$6.83 per sq. ft., structural
\$2.64 per sq. ft., mechanical



SPOTLIGHT

SE-345

children during the early morning and early afternoon when both he and the child are fresh. There are not Saturdays in sufficient number in the year to accommodate children's dentistry.

"If all dentistry were done during the summer vacation period, that would by no means preclude the child's having need for further care during the following fall or winter."

ACEI Conference Features School, Care Center Visits

WASHINGTON—"Focus on Children" is the theme of the 1955 Study Conference of the Association for Childhood Education International, scheduled April 11-15 at Kansas City, Mo.

Some of the items of interest included in the five-day meeting are opportunities to watch outstanding elementary teachers at work, visits in Kansas City schools and child care centers, consultation periods with authorities on the education of children and discussion groups.

The ACEI Plan of Action for 1955-1957, based on the needs of children aged two to twelve as observed by members in their local communities, will be presented for adoption, and suggested action will be discussed.

Further information is available from Frances Hamilton, executive secretary, at ACEI, 1200 15th St., N. W., Washington 5.

College Study Finds Pupils, Teachers Fear to Speak Up

WASHINGTON — Academic freedom was much in the spotlight at the recent convention here of the Association of American Colleges.

The 700 delegates—college presidents and deans from all over the United States—approved a resolution declaring that expressions of "honest opinion" are vital to campus life.

The Association's Commission on Academic Freedom and Tenure, in its annual report, found a "distressing" tendency on the part of college students and teachers to avoid ex-

We check on our treatment after it's in your boiler!



...and we keep on checking
it as long as you use it!

The Acme Service Engineer by personal calls, and we in the Laboratory by testing your *treated* boiler water, make periodic checks to assure that our treatment is doing the job it's supposed to do—protecting your boiler against scale and corrosion. *And at no additional cost to you!* That's what you get with

Acme RUSTOSCALE® Boiler Water Treatment

To begin with, the formula of Rustoscale we prescribe for your boiler is compounded from an analysis of your boiler supply water, and from a thorough study of your boiler's function.

Once our treatment is in your boiler, we watch its effect by making tests, every 30 or 60 days, of the *treated* water—alert for any change that might mean a change in formula or dosage. After each test we send you a report with recommendations. A copy goes to your Acme Service Engineer, so that he, too, knows what's going in your boiler at all times.

RUSTOSCALE
IS NOW BEING
USED IN OVER
13,500 UNITS
IN THE U.S.
'AND CANADA

GET A FREE WATER ANALYSIS—
Find out what goes on inside your boiler!
No cost or obligation. The Rustoscale Laboratory will make a free analysis of your boiler and supply water and report to you in writing. Just fill out and mail the coupon . . . the Acme Service Engineer in your locality will obtain water samples and necessary data from you.

ACME CHEMICAL CO., Dept. SX-3, 2506 N. 32nd St., Milwaukee 45, Wis.

Please have your Service Engineer arrange a free analysis
of our boiler and supply water, at no cost or obligation to us.

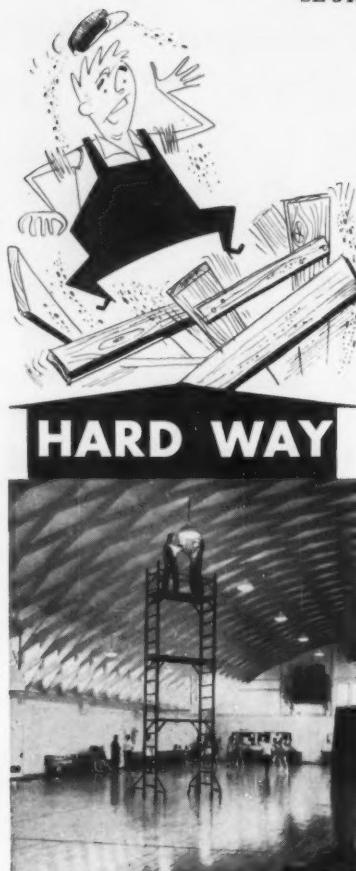
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CITY..... STATE.....

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ACME Chemical Company
FOR OVER SIXTY YEARS QUALITY ABOVE ALL
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RIGHT WAY

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BAKER-ROOS, INC.
602 W. McCarty St., Indianapolis 6, Ind.
Gentlemen: Please send me full details and photos of the Baker Scaffolds in action, without obligation.

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Company _____
Address _____
City _____ State _____

SPOTLIGHT

pressing themselves on controversial issues, not for fear they will be expelled or fired but for fear it will keep them from getting good jobs later in life.

Fulbright, Fosdick Talk at Higher Education Meeting

CHICAGO—Sen. J. W. Fulbright (D.-Ark.), and author Dorothy Fosdick, headed the speakers list at the Tenth National Conference on Higher Education held here recently.

Senator Fulbright discussed "The Relation of Higher Education to the Maintenance of American Freedom." Miss Fosdick, author of the current book, *Common Sense and World Affairs*, spoke at the annual banquet.

The conference, sponsored by the Association for Higher Education, an NEA department, drew 950 administrators and faculty members from 450 colleges and universities

across the nation.

Other speakers included: Buell G. Gallagher, president, City College, New York City, who gave the keynote address at the initial session, on "The Meaning and Mission of Higher Education;" and Henry David, executive secretary, National Manpower Council, Columbia University, who discussed "Higher Education and the American Economy".

A special information session entitled, "A New Look at the H-Bomb" was presented by a group of civil defense experts and educators. Participating were W. Gayle Starnes, director, Training and Education, Federal Civil Defense Administration, Battle Creek, Mich.; John H. Ludington, chief, Civil Defense Education Project, U. S. Office of Education, Washington, D. C.; R. H. Woods, president, Murray State College; and James R. Arnold, Institute of Nuclear Studies, University of Chicago.

Forty study groups were organized around those problems which

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Master-Keyed
locker locks*



EXTRA SECURITY
with the DUDLEY
Master Key

Unique inside channel pattern can't be
duplicated on commercial key-making
machines. Can be set up for S-540 and
P-570 together.



S-540...
the built-in locker lock
with 15-second combination change!

Every Dudley Lock is
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years. Write for Catalog Folder.

DUDLEY P-570

Master-Keyed Padlock

Quality features include rugged case of cast aluminum, extra heavy steel shackle, satin finished dial, self-locking mechanism, extraordinarily pick-resistant.

DUDLEY Lock Corporation

Dept. 419, Crystal Lake, Illinois



APRIL SHOWERS

Spring months point up demands to be met in the fall.

Advance planning is both essential and practical if community institutions have fund-raising problems.

Our appraisal of your potentials in public acceptance and support is a constructive preliminary which involves nothing more than an invitation to us and courteous cooperation with us to best serve your interests.

April 22 marks our Forty-Second Anniversary of continuous service to American philanthropy.



THERE IS NO SUBSTITUTE FOR EXPERIENCE.

*Charter Member
American Association
of Fund-Raising
Counsel*

American City Bureau
(ESTABLISHED 1913)

221 North LaSalle Street
Chicago 1, Illinois

470 Fourth Avenue
New York 16, New York



What does their safety mean to you?



Can you conscientiously "buy on price" alone, with the lives and whole-limbed safety of your school's children at stake? Isn't it wiser...in the long run...to buy top quality?

Every BLUE BIRD School Bus is an example of BLUE BIRD'S uncompromising adherence to top quality construction...and the added safety it brings to you. The new, 1955 BLUE BIRDS are the finest School Buses ever built. Their new, more abundant safety features give them the leadership in value you are looking for...from both the standpoint of child safety and economical operation.

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Please send me your new, 1955
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Your "BETTER BUY" in 1955!

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SPOTLIGHT

have been identified as critical issues by educational leaders in various parts of the country. Top priority was given to the shortages of faculties, finances, and facilities confronting institutions today and the staggering number of students beginning to engulf many campuses.

John R. Emens, president, Ball State Teachers College, is president of the Association, and G. Kerry Smith of Washington, D. C., is executive secretary.

Three More Cities Open Educational TV Stations

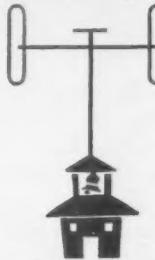
Seattle, Chapel Hill, N. C. and Mumford, Ala. have joined the list of cities now operating educational television stations.

Now on the air are Station KCTS, Seattle, licensed to the University of Washington; WUNC-TV, Chapel Hill, operated by the Consolidated University of North Carolina with studios

in Chapel Hill, Raleigh and Greensboro and WEDM, Mumford, operated by the Alabama Educational Television Commission as the first in a state network.

This brings the total of non-commercial television stations in operation to ten.

The other stations are located in Houston, Texas; East Lansing, Mich.; Pittsburgh, Pa.; Madison, Wis.; San Francisco; Cincinnati, Ohio and St. Louis.



FCC Urged to Examine Value of Subscription TV

WASHINGTON — An official, unanimously-adopted statement of the Joint Committee on Education Television has urged the Federal Communications Commission to consider

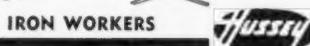
SE-350

This Patented "Horse" Makes The Difference



Shows how patented steel horse fits into and firmly grips steel stringer.

IRON WORKERS



ONLY HUSSEY SEATING HAS IT!

Note how the jaws of the solid steel legs grip the steel stringer and make a positive, immovable connection of steel—how the greater the weight, the firmer the grip. Yet by release of the toggle bar at the base, the legs are released and fold into an easily carried and easily stored member.

Hussey Stands are available in two styles—Portable Bleachers (Model 6), Portable Grandstands (Model 8), and come in 6, 10 and 15 tier, 12 foot in stock sections that can be added to as desired. They can be used indoors and out and can be erected and taken down easier and faster than any other stands on the market.

FREE catalog and complete information on request. Write Today.

SINCE 1835

HUSSEY MFG. CO., INC.

550 Railroad Avenue

Also mfrs. of: Roll-Out Gym Seats, Diving Boards, Floats, Piers, Water Sports Equip., Flag Poles

North Berwick, Maine

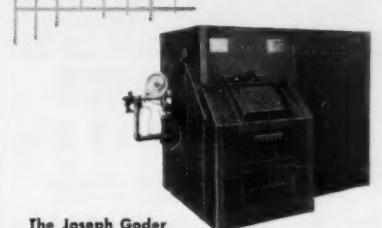
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to:

**SAVE COSTS
SAVE TIME
SAVE SPACE**

insist on . . .

JOSEPH GODER INCINERATORS



The Joseph Goder #450-IRN equipped with burner destroys 500 pounds of refuse per hour.

Now is the time to equip your school with the most modern way to dispose of rubbish, garbage and other waste . . . a Joseph Goder Incinerator! Its efficient and sanitary operation makes it the favorite of schools everywhere. All but smokeless in operation.

Whatever your need . . . small prefabricated incinerators . . . or a large custom-built installation . . . you can depend on Joseph Goder to do the job BETTER!



Typical of a Joseph Goder installation is found at St. Vincent's College of Nursing, Los Angeles, Calif., where a #450-SR incinerator was installed. Architects—Austin, Field & Fry, Los Angeles. Contractor—James I. Barnes Construction Co.

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5121 N. Ravenswood Ave.
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Please send complete information on Joseph Goder Incinerators and your INCINERATOR BLUE BOOK.

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161
De Vrylite
16 mm. PROJECTORS



**COMPARE
DEVRYLITE
with any other make**

Regardless of what basis you use for comparing the De Vrylite projector with other makes, you will come to the conclusion that the De Vrylite is your best buy. Compare the construction features. De Vrylite gives you simplicity of design, compactness, ease of operation, lightweight portability and trouble-free service life. Compare the projection qualities. The De Vrylite is unexcelled for brilliance, clarity, steadiness of image, natural rich tonal quality and high fidelity of sound. Don't take our word for it—make the comparison yourself.

FREE FOLDER AVAILABLE

Write for the free folder today and compare the specifications. Then you will be convinced, as thousands of others have, that De Vrylite is the finest in 16 mm motion picture projectors. And for an on-the-spot demonstration—call your nearest De Vrylite dealer . . . or check the coupon below. Write Dept. E

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- Send me the free folder on the De Vrylite projector.
 Without obligation, I would like to see the De Vrylite demonstrated.

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SPOTLIGHT

the "educational methods and objectives" of subscription (closed-circuit) television when considering this medium.

The statement, as released by Ralph Steele, executive director of the group representing seven national education organizations, read in part:

Explore possibilities

" . . . Should one or more systems of subscription television be authorized for use on either a permanent or temporary basis, the JCET will be deeply interested in exploring their educational possibilities.

"Proponents of subscription television believe that it presents a method whereby television may be made a more flexible and varied medium of communication, and whereby the viewers' range of choice may be greatly increased. These features are in harmony with educational methods and objectives, and accordingly the JCET will urge that the Federal Communications Commission take them into account in its consideration of subscription television."

**No Politics for Employees
Of San Francisco Schools**

SAN FRANCISCO—A recent school board ruling prohibits all employees of this city's school district "from active participation in the nomination or confirmation of members of the San Francisco board of education . . . the election of the mayor . . . (and) of a member or members of the board of supervisors."

"Active participation" is defined in the rule as "the public endorsement of candidates; distribution of literature; solicitation of votes; the levying or soliciting of funds or political support; in each case for the purpose of favoring or hindering the nomination, confirmation or election of any of said officers, whether directly or indirectly."

The rule further requires employees of the school district to obtain a leave of absence before "announcing

AJUSTRITE
®
CHAIRS
and STOOLS for
Classroom

Especially advantageous where instruments and other types of equipment are used. Biology classroom illustrated. Permits proper seat height for both standard and higher requirements.



Laboratory

AJUSTRITE was first designed and made specifically for laboratory use. Quick, easy adjustment permits just the right height for many, varied and changing requirements.



Vocational

In all departments, drafting, manual training, business education, craft shops, home economics and others—AJUSTRITE stools and chairs offer many advantages to the effectiveness of instruction.

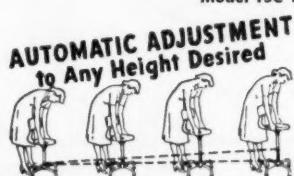


The most popular AJUSTRITE stool. Seat adjusts 18" to 27"—has 13" diameter steel seat; hardwood seat, backrest, floor glides optional. All metal construction for lifetime durability. This one stool meets most requirements in majority of laboratories and shops which would otherwise need several sizes of ordinary stools.

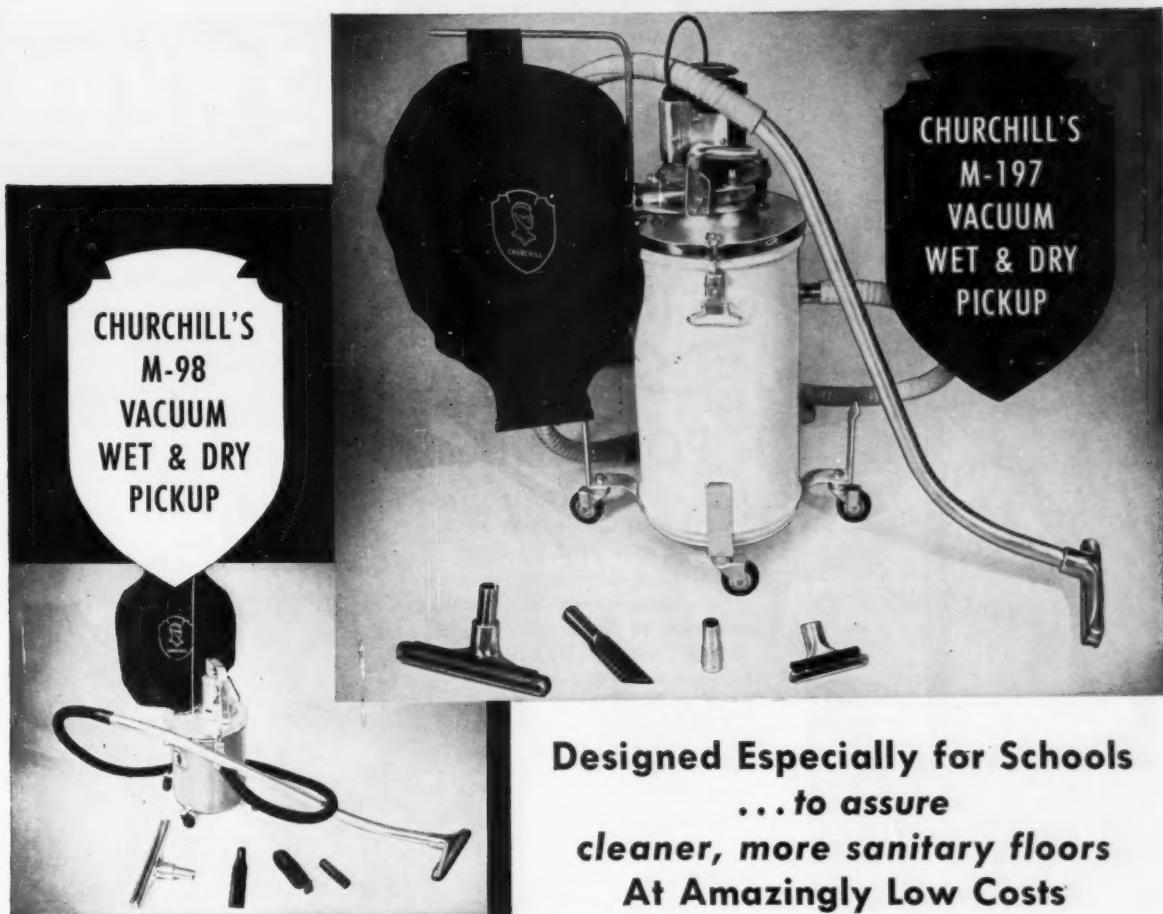


A posture type chair with seat adjustment of 16" to 21", backrest horizontal and vertical adjustment of 5". Ideal for teaching and practicing posture in typing and other business classes. Some science classrooms and laboratories use this type to advantage. Also comes with higher adjustment ranges. Reasonably priced to schools.

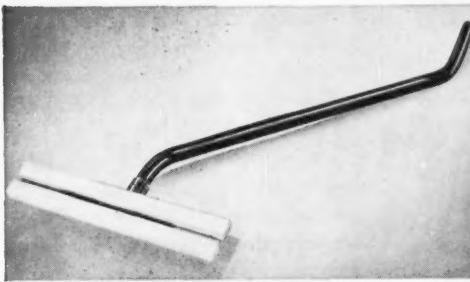
FREE TRIAL Samples furnished for 30 day trial without obligation. Send for illustrated folder.



AJUSTO EQUIPMENT CO.
2144 MADISON AVE. • TOLEDO 2, O.



A smaller unit with the same proportionate ability and value as Churchill's M-197. Has $\frac{1}{2}$ h.p. motor, filter area of 528 sq. in., volume of 165 cu. ft. per min., tank capacity of 5 gallons. Standard equipment includes all attachments shown. Amazingly low in both first cost and operating cost. Many schools buy one for each floor or section of the building.



CHURCHILL'S 24" DRY MOP... an excellent accessory (extra) for dry sweeping. Works with either M-197 or M-98. Made with replaceable flannel covering over foam rubber and wood shoe which is fastened to aluminum top plate. Furnished complete with pair of extra heads which are removable and washable.

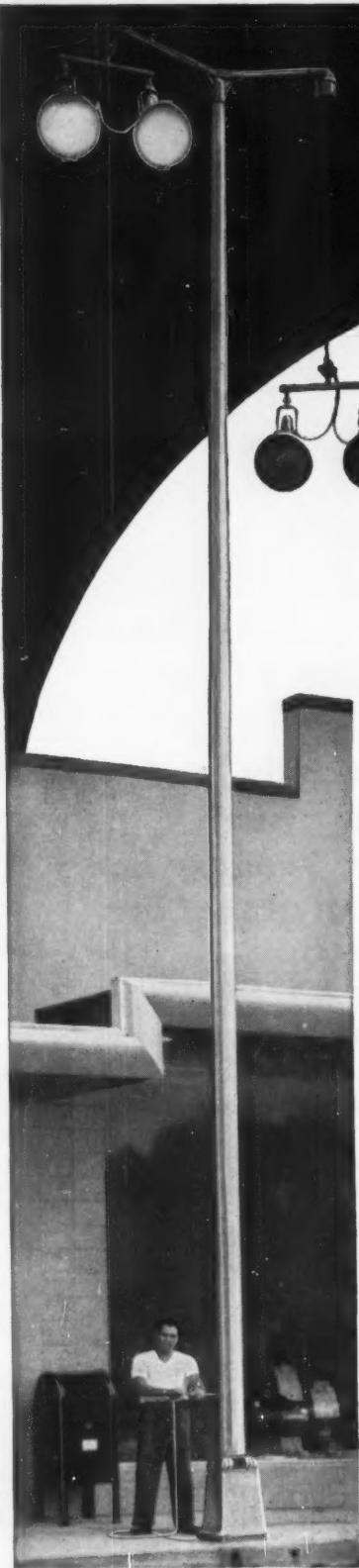
Designed Especially for Schools ... to assure cleaner, more sanitary floors At Amazingly Low Costs

Here's a valuable addition to any school's maintenance equipment... a powerful, all-purpose unit which can be used for either wet or dry cleaning without interruption. Strong suction removes dirt, lint, metal and other dry matter... water and other liquids. Also convertible for use of exhaust in blowing dirt from surfaces which cannot be vacuum cleaned.

Ball bearing casters, set out from the container, make the entire unit very stable and easily portable. Equipped with 1 h.p. Universal type air cooled motor and sealed ball bearings. Bag area, 1504 sq. inches; tank capacity, 15 gallons. Furnished complete with the following attachments to take care of every ordinary cleaning requirement: 12" squeegee, 12" floor tool, 6" upholstery tool, crevice tool, adapter, 2 wands, 2-section hose, bag, heavy-duty rubber covered cord with unbreakable rubber plugs.

Yes, Churchill's M-197 is the vacuum pickup you need... and it can save considerably on maintenance costs. It will match the performance of any of the more expensive machines, yet the original cost is only about half! In other words, you can buy two of these Churchill units for very little more than you would pay for one competitor of equal capacity and ability. For complete information and prices, call your Churchill distributor or representative, or write...

CHURCHILL MANUFACTURING COMPANY, GALESBURG, ILL.



5030-TE
THE THOMPSON ELECTRIC CO.

1127 Power Avenue, Cleveland 14, Ohio

THE FACTS OF LIGHT

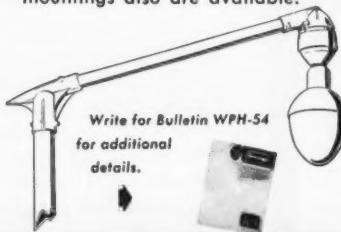
and THOMPSON
Servisafe
POLE UNITS

FACT NO. 1: ONLY "SERVISAFAE" UNITS PERMIT GROUND LEVEL MAINTENANCE FOR POLE-MOUNTED LUMINAIRES. A disconnecting and lowering hanger mechanism allows workman to lower luminaire for servicing and then reposition it with minimum effort and complete safety.

FACT NO. 2: ALL SERVICING HAZARDS ARE ELIMINATED. Workman has both feet on the ground and both hands on the job at all times. In addition, lowered fixture is "dead" because live contacts remain at pole top.

FACT NO. 3: SERVICING TIME AND COSTS ARE REDUCED TO MINIMUM. One man, using only a light vehicle, now can maintain pole-mounted luminaires in a fraction of the time formerly required. Faster servicing and elimination of costly auxiliary equipment assures substantial savings as well as increased lighting efficiency.

FACT NO. 4: "SERVISAFAE" POLE UNITS ARE SUPPLIED AS COMPLETE PACKAGES READY FOR WIRING AND ERECTING. Featuring decorative as well as functional qualities, both single and double-arm models can be furnished with a variety of new steel and aluminum poles. "Servisafe" Bracket Units for wall and wood pole mountings also are available.



SPOTLIGHT

his intention to become a candidate for any city, school district, state or federal office that is subject to election or confirmation by vote of the electorate of the city and county of San Francisco."

Political activity "relative to any candidates, issues or propositions is prohibited on school grounds during school hours."

Violation of the rule "shall constitute unprofessional conduct."

Employees may vote at elections or attend political meetings, however, the rule adds.

D. C. Teachers Protest Speaker Clearance Rule

WASHINGTON—Complaints by the local Teachers Union that present rulings regarding clearance of speakers are "awkward and embarrassing" have touched off a controversy between the union and the board of education.

An eight-year-old ruling gives authority for clearance to top school officials. The union claims this has resulted in failure to secure several desired speakers on short notice. It wants authority transferred to the individual school principal.

To secure clearance under the present system, schools must file forms in triplicate through the principal to an assistant or associate superintendent, from where they are forwarded to the superintendent. A speaker is not supposed to be approached before clearance is sought.

The ruling was instituted in 1947 after several high school students left a school assembly speech by a Russian-born speaker.

Developing Creative Leaders Is Toledo Meeting Theme

TOLEDO, OHIO—More effective use of America's potential brainpower is the purpose of a conference of industrial and educational leaders from all over the nation, April 27 and 28, at the University of Toledo.

The theme is "The Impending Shortage in Creative Manpower—

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SPOTLIGHT

Its Implications to Education."

Discussions will be aimed at developing a plan for discovering more competent students earlier in school life and giving them more effective guidance into the professions or highly skilled occupations. Conference planners are convinced that steps must be taken now to fill the tremendous needs becoming apparent in the nation.

Dr. Arthur Flemming, director,

U. S. Office of Defense Mobilization, will give the major address of the conference the evening of April 27 and Dr. Benjamin Fine, education editor, *The New York Times*, will be the principal speaker at the closing session the next day.

"A shameful waste . . ."

"It is a shameful waste when half the high school students best qualified for further training do not go to college," said TU President Asa S. Knowles. "The resulting loss to the

nation will be felt for years to come unless proper steps are taken now."

Dr. George W. Ebeling, conference chairman declared, "We believe the way to solve this problem is to start right here in the expectation of setting up an effective program at the grass roots level. This pilot study might well then serve as a model to guide similar effort in other areas of the nation".

The conference planning committee of school administrators, guidance personnel, curriculum consultants and industrial leaders has established four objectives for the conference:

Four conference objectives

1. analysis of the problems of both the present and anticipated shortage of trained personnel.

2. development of means for strengthening and properly integrating high school and post-high school curricula.

3. study of guidance facilities and personnel at the secondary school and post-high school levels.

4. determination of ways to motivate young people to recognize the need for post-high school education suitable to their abilities, aptitudes, interests and financial resources.

NEA Appoints Commission To Plan Centennial in 1957

WASHINGTON—A 21-member commission has been appointed to plan the 100th anniversary celebration of NEA in 1957, reports President Waurine Walker.

The NEA (first called the National Teachers Association) was founded in 1857 at Philadelphia, where the association will return in 1957 for its centennial convention.

Helen Ryan, field assistant, Illinois Education Association, Springfield, and a member of NEA's board of directors, was elected to serve as chairman of the Centennial Celebration Commission.

The Commission adopted "An Educated People Moves Freedom Forward" as the Centennial theme.

The celebration, the commission voted at a meeting here, "shall be the occasion to consider the decisive role

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There's only one practical way to measure the cost of most bleacher seating. Determine the Fixed Cost of Installation—then add to it the estimated cost of Maintenance and Repairs during the life of the seating.

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So, if you are seeking bids on either permanent or portable stands, be sure to investigate **PLAYTIME** . . . *"It Costs Less Because It Lasts Longer!"*

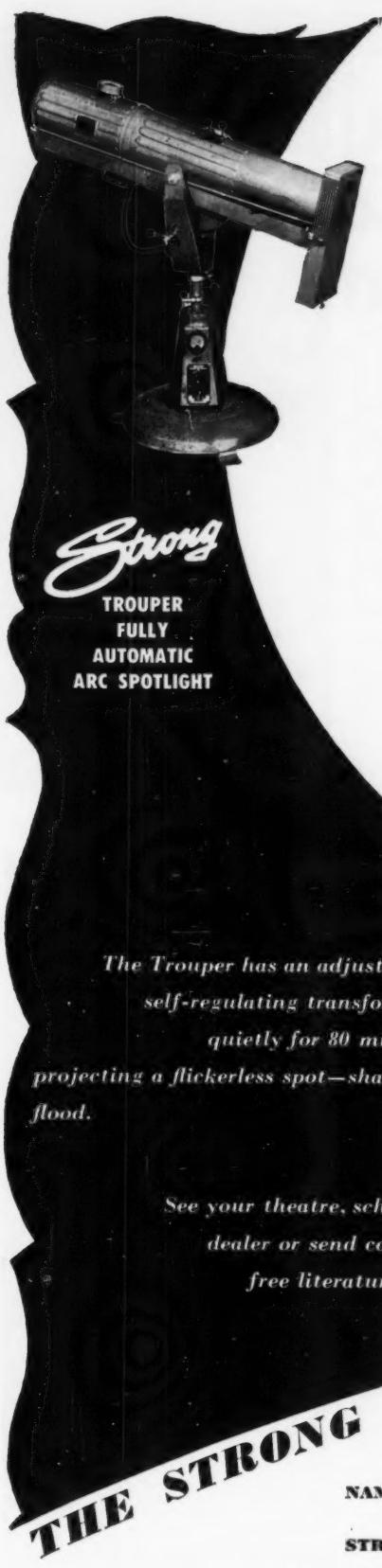
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The Trouper has an adjustable, self-regulating transformer in the base, burns quietly for 80 minutes without retrimming, projecting a flickerless spot—sharp edged from head to flood.

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ALTON, ILL. BOARD OF EDUCATION installed 25 National Hand Dryers. They actually tested and carefully checked 4 of these dryers installed in a washroom in the Senior High School and report a savings of \$116.28 per month from these 4 units.

NORTHWESTERN UNIVERSITY has installed over 70 National Hand Dryers, providing automatic round-the-clock towel service . . . ending complaints about empty towel containers . . . eliminating a potential fire hazard.

NATIONAL HAND DRYERS are vandal proof. They are designed and constructed to meet conditions of extreme abuse.

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Send me the facts. Cost comparison of	
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erature.	
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SPOTLIGHT

of education in a changing world; to stimulate action to provide adequate education for the increasing millions of children; to strengthen the teaching profession in its service to people of all ages."

Miss Walker invited parents and citizens throughout the nation to join with NEA and "dedicate themselves anew to the cause of educational opportunity for the growing millions of American school children."

Invitations to participate in the centennial will be issued to the 575,000 NEA members and to the 66 state associations, 5,500 local associations, 29 departments and 24 commissions and committees affiliated with NEA.



AMERICAN JUNIOR RED CROSS

APGA Convention Keynotes Talk by Top Psychologist

CHICAGO—"Guidance and Personnel Work in a Dynamic Society" will be the theme of the American Personnel & Guidance Association national convention at the Conrad Hilton Hotel in Chicago, April 3-7.

Gardner Murphy, director of research, Menninger Clinic, Topeka, Kan., will be keynote speaker.

Other highlights include a college presidents' panel and report from the U. S. Department of Health, Education and Welfare.

APGA is a professional association

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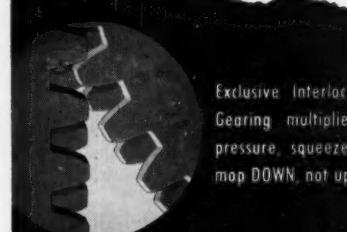


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Model 70-M

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Elem. School, Vashon, Wash.
Architects: Branch & Branch, Bremerton, Wash.

• Duo-Washfountains are ideal for school washrooms of all kinds, and for individual rooms as in the new elementary school at Vashon, Wash.

The Bradley Duo is ultra sanitary—no faucets to touch—a foot pedal serving to control the tempered water supply provided by the sprayhead. In Bulletin K-958 you'll find useful data and recommendations.

BRADLEY WASHFOUNTAIN CO.

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SE-363

SPOTLIGHT

of over 7,500 members in various phases of personnel work in education, business, industry, government, social agencies and service organizations.

Member divisions include the American College Personnel Association, American School Counselors Association, National Association of Supervisors and Counselor Trainers, National Vocational Guidance Association and Student Personnel Association for Teacher Education.

NAVA Publishes Revised A-V Equipment Directory

EVANSTON, ILL.—A revised second edition of *NAVA Audio-Visual Equipment Directory* has been published by the National Audio-Visual Association.

Designed to serve as a guide to current models of audio-visual equipment — Projectors, Reproducers, Recorders and Accessories—the new directory includes 421 photographs and complete specifications and prices.

Lists film libraries

Special sections are included which list sources of film library equipment and services and miscellaneous accessory equipment. Also included is a visual thumb index to each section; a listing of manufacturers' names and addresses with page references to their listing and a glossary of trade names with reference to the manufacturers' name.

Information is available from NAVA, 2540 Eastwood Ave., Evanston, Ill.

Color Filmstrips Produced On National Parks

NEW HAVEN, Conn.—A series of six National Parks Filmstrips has been produced with the collaboration of the National Park Service and Richard A. Pough, chairman, Department of Conservation, American Museum of Natural History. The filmstrips have been designed for use in social science studies partic-



How to get Maximum Seating in Minimum Space

...plus MAXIMUM SPECTATOR COMFORT

Just ask for a seat demonstration of *Universal* Roll-A-Way Stands. Then you'll see and appreciate what we mean by maximum spectator comfort . . . in minimum space.

Notice the spectator's natural, comfortable position while seated. Make all the tests you wish, with feet forward or drawn back under the seats. Get out the slide rule and compute the actual area (or we'll do it for you). Compare design, construction, dimensions, and you'll find that . . .



Universal Roll-A-Way Stands

provide more cubic inches of comfortable leg room below seat board levels than any other stands . . . with either 22" or 24" row spacing.

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**THE NO. 1 MAINTENANCE MACHINE!
ASTOUNDING PERFORMANCE ON
ANY JOB, ANY FLOOR, ANY RUG**

One Machine does 10 jobs!

easier for operator ...

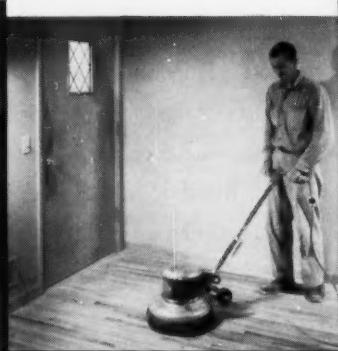
lower costs for management...two complete lines priced to fit every budget!



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Disc Sanding



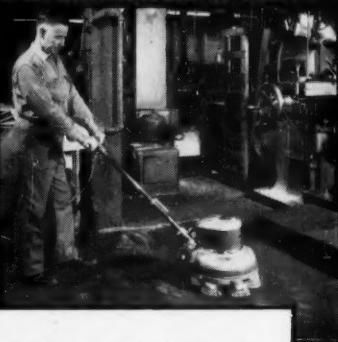
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SPOTLIGHT

ularly in courses on United States geography and history, and for work in conservation and science.

The titles are: Our National Park System, Yellowstone, Yosemite, Grand Canyon, Zion and Bryce, Mesa Verde.

The filmstrips are in Eastman Color and average 50 frames apiece. They were produced by Academy Award winner John A. Haeseler who carried out the photography in the Parks especially for these filmstrips.

They are being distributed by Haeseler Pictures, Amity Road, Woodbridge, New Haven 15, Conn.

Jr. High and Community Is Topic of Conference

NEW YORK—"The Junior High School and Community Life" was the subject under discussion by leaders in labor, industry, communications and youth and civic organizations at the 28th annual Junior High School Conference at New York University's School of Education last month.

The meeting was opened by a forum on "How We Can Work Together". Participating in the discussion, moderated by Forrest E. Long, NYU professor of education, were:

Forum speakers named

Albert L. Ayars, director, education department, Hill and Knowlton, Inc., public relations counselors; Solomon Barkin, director of research, Textile Workers Union, c/o; George Corwin, National Board, Young Men's Christian Association; Jacob Jacowitz, education editor, New York *World-Telegram and Sun*; A. H. Lauchner, principal, Great Neck Junior High School, Great Neck, N.Y.

Also participating were Pliny Power, deputy chief scout executive, Boy Scouts of America; Robert Sudek, director, Television and Radio Workshop, Ford Foundation and Evelyn Schlaifer, Board of Directors, New York State Citizens Committee for the Public Schools.

Work groups discussed such topics as: integration of summer camp

(Continued on page 132)

What's the weather going to be? Ask these junior weathermen. For with the materials in a commercial weather kit, they are building a wind speed and direction indicator, barometer, compass and hygrometer.



SE-366

PHOTOS SHOW SHOP AND EXTERIOR OF WILLIAMSVILLE HIGH SCHOOL, KENMORE, N. Y.



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One large hospital reported 283 slippery floor accidents in 3½ years. With slip-resistant LEGGE Polishes, such accidents disappeared completely. Surprising, isn't it, that LEGGE Maintenance actually costs less?

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SPOTLIGHT

activities with the junior high school program; the mutual concern of the junior high school, the press, radio and television in the education of youth; the comics as instruments of delinquency or education; attaining moral values through the cooperation of junior high school and religious education; the joint responsibility of business, industry and the junior high school for youth education.

Professor Earl R. Gabler, chairman, Department of Secondary Education, was conference chairman.

Schoolmen Asked to Send Books to USC's Library

LOS ANGELES—Administrators are asked to contribute professional books in school administration and education to the library of the University of Southern California.

The new permanent collection of this section of the University library has been set up to provide education students with materials for study and research.

It was given its start by the presentation of 1,000 volumes and sets of educational journals belonging to the late John A. Sexon, former superintendent of schools, Pasadena, Calif., by his widow, Mrs. Margaret Sexon.

Irving Melbo, dean, school of education, accepted the Sexon Collection, which will receive a special place in the university library.

AACTE Meeting Hits Shortage, Surplus Problems

WASHINGTON, D. C.—Some 700 presidents, deans and professors meeting in Chicago recently for the seventh annual meeting of the American Association of Colleges for Teacher Education, covered such problems as the shortage of funds, facilities and faculties and the surplus of students now beginning to engulf universities across the nation.

U. S. Education Commissioner S. M. Brownell spoke at the opening session of the three-day conference

on "The Impact of Increased College Enrollments of Teacher Education Institutions."

Alonzo F. Myers, chairman, Department of Higher Education, School of Education, New York University, also addressed the initial session. His subject was "Academic Freedom and Academic Responsibilities for Teachers and Students."

An NEA department

AACTE, a department of the National Education Association, is a national organization for the improvement of teacher education. Its 282 member institutions are responsible for the preparation of approximately half of the teachers who have chosen teaching careers in the public schools of the nation.

A five-year project to prepare prospective teachers to deal directly and objectively with religion in their classrooms was the topic of a panel discussion on "Teacher Education and Religion."

Participating were: John G. Flowers, president, Southwest Texas State Teachers College, San Marcos; Kenneth D. Benne, chairman, Department of Human Relations, Boston University; and Eugene E. Dawson, coordinator, Teacher Education and Religion Project, Pittsburgh, Kan.

The project, financed by the William H. Danforth Foundation, is now in its second year.

List discussion topics

A number of discussion groups considered topics such as unit costs in teacher education, planning for 1960 enrollments in teacher education, positive public relations for teacher education, general teacher education, staffing colleges for teacher education in the next decade and teacher competence.

Reports on the "Role of Television in Teacher Education" were presented at one of the general sessions by Ralph Steele, executive director, Joint Committee on Educational Television, Washington, D.C., and E. DeAlton Partridge, president, New Jersey State Teachers College, Montclair.

On the final day of the conference

Now... accurate scientific tests of
YOUR STUDENTS' HEARING
can be made easily, economically with the
NEW BELTONE AUDIOMETER



HAILED BY SCHOOL DOCTORS AND NURSES

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Nurses find this new, compact basic audiometer exceptionally convenient because it weighs only 11 pounds. It is easy to use because readings of hearing loss can be made direct from the dial, without arithmetical computations.

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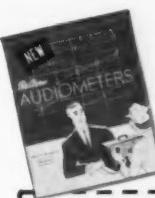


Vital Facts about the Beltone Audiometer

- Features a new, exclusive one electronic tube circuit that does away with expense and nuisance of most service problems.
- Contains other new, exclusive features that mean accurate testing...easy operation...low-cost service. Weighs only 11 pounds.
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- Please arrange for Soundview demonstration.
 Please send full details.

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SPOTLIGHT

a series of curriculum clinics were held on the various types of programs of preparation in institutions ranging from the multi-purpose university and state college to liberal arts and church related colleges.

C'mon, team!



Physical education students in three-legged race are studying to be teachers at Educational Training and Production Centre, Tripoli, Libya. Aided by UNESCO, centre has two teacher-training colleges (men and women), model primary schools and educational materials production centre.

Time Grants \$ to Colleges Where Employees Study

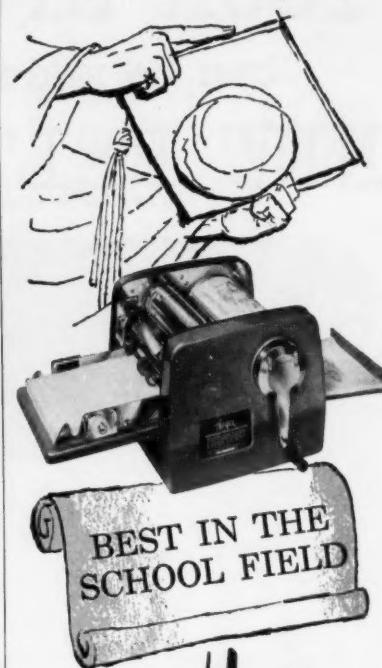
NEW YORK—Colleges and universities where Time Inc. staff members are currently taking courses are receiving financial contributions from the publishing company under a new plan, reports Roy E. Larsen, president.

These grants match the total tuition paid by the company's employees who enrolled in courses in recent months under the company's education plan. A total of \$18,171 has been given on an unrestricted basis to 23 colleges and universities throughout the United States.

Company pays half fee

"In 1953," Mr. Larsen stated, "Time Inc. established an Education Benefit Plan under which the company pays staff members half the tuition costs for after-hours courses which they take. We also recognize that the tuition charged by colleges and universities generally amounts

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New Fluid Control—Meters exact flow of fluid to paper . . . compensates for any type paper, any atmospheric condition.

Built-In Reset Counter—(Not an extra cost item) Always in view of operator, you run exact number of copies you want.

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Now you can print 120 or more copies per minute . . . always brilliant, sharp copies of anything typed, written or drawn on the master, and you can print in one to five colors in one operation.

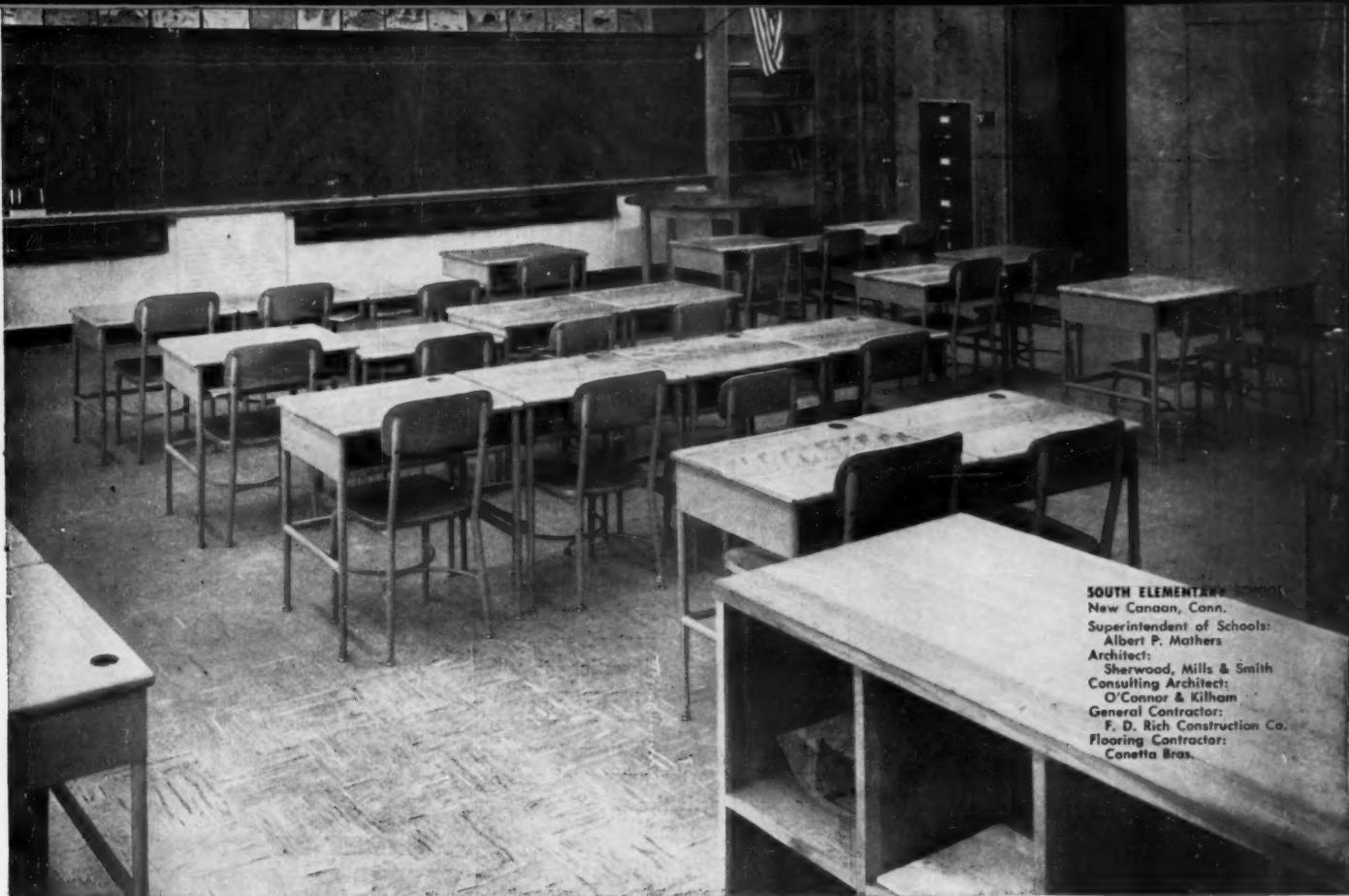
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a **MATICO** asphalt tile floor
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Savings on price . . . because it's
the most economical type of
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because quality-controlled **MATICO** lays in easily, cuts
labor costs appreciably.

And savings, of course, on maintenance. **MATICO**'s smooth,
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And, over a span of years, vital savings in replacement.
MATICO is exceedingly durable . . . stands up better and
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Choose from 32 rich, clear colors . . . an unlimited variety
of designs and patterns . . . all calculated to make drab
rooms and corridors brighter and more cheerful. Hundreds
of modern schools across the land have made . . . and are
making . . . this choice year after year.



**Years of wear
in every chair**



BTC *Hostess*
FOLDING CHAIRS

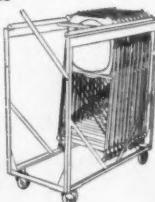
Finest folding chairs you can buy! Because Hostess Chairs withstand years of use and abuse. Full-size padded seats and backs guarantee maximum comfort. Your choice of 14 chair colors and 15 beautiful upholstery coverings offering a total of 210 combinations.

Plus all these features!

- Husky all-steel construction
- Simple to set up, take down
- 2-way safety closing prevents collapse
- Duran or Boltaflex upholstery
- Replaceable rubber footpads
- Can't skid or mar floors
- Lowest cost in the long run

BTC CHAIR TRUCKS

Vertical Truck (illustrated) transports — stores 24 chairs. Horizontal Truck (not illustrated) for under-stage storage, holds 36 chairs. Front casters swivel, rear wheels fixed for easy steering.



FREE COLORFUL FOLDER
shows Hostess Chair and
Truck line. Write for it!

The BREWER-TITCHENER CORPORATION
CORTLAND, N.Y.

SPOTLIGHT

to only 40% to 60% of the cost of instruction.

"Therefore, as an experiment, this year we have decided to grant to all colleges and universities where our employees completed courses under our Education Benefit Plan, unrestricted gifts equivalent to the schools' tuition charges."

American business and industry is being asked to help meet growing deficits of institutions of higher education, Mr. Larsen added.

"We feel that this new program, which we believe is the first of its kind, is a logical part of any company's plans for investing in the development of its present and future manpower. Over a third of Time Inc.'s contributions are already going to the support of varied educational activities . . ."

**Equip Students to Live
With Atom, Payne Urges**

CINCINNATI, Ohio—Civilization will survive if both public education and the churches, backed by an aroused people, tackle the job of equipping man spiritually and intellectually to live with the atom, Paul Calvin Payne told the annual meeting of the National Council of Churches' Division of Christian Education recently.

The division chairman and top administrator of the Presbyterian U. S. A. Board of Christian Education saw a new dark age ahead for America and civilization as a whole unless the nation's educators help develop men and women who can be "trusted to use the fantastic powers we now possess for some better purpose than the making of fantastic weapons."

\$ for schools or war?

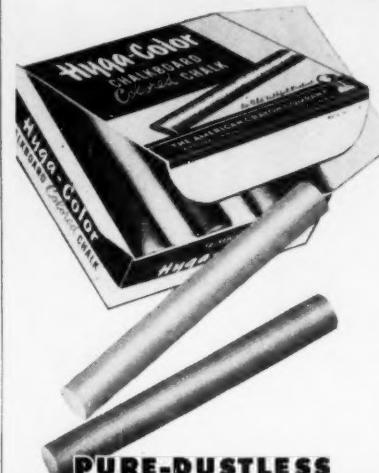
"We are at the moment of decision in history when we must decide whether we will pay for schools or for war," he declared.

Today's question is not whether western society will survive, he said, "but will the human race survive."

Another speaker, Gerald E. Knoff, executive secretary for the Division

NOW Color

comes to the
CHALKBOARD



PURE-DUSTLESS **HYGA-COLOR**

Now you can increase the effectiveness of your chalkboard through color, without sacrificing the famous dustless, easy writing, easy erasing qualities of Hygieia Dustless white chalk.

A pure levigated chalk, free from any grit, flint, or greasy binder, HYGA-COLOR is readily adaptable to every subject taught in schools.

	ADDS NEW INTEREST to geography lessons
	CLARIFIES the teaching of mathematics
	SIMPLIFIES the explanation of physics and chemistry problems

Free literature gladly sent on request.
Dept. SN-37

a The American Crayon Company
Sandusky, Ohio New York

Super Safety Cleaner

MULTI-CLEAN Method

with
ACTIVATED

HCP

What is HCP?
HCP is the new activated chemical additive in Super Safety Cleaner that generates higher cleaning power. Developed by Multi-Clean chemists for fast, safe cleaning of all types of floors, the HCP additive powers the cocoanut oil action instantly—freeing dirt and holding it in suspension. Dirt floats away with wet pickup vacuum cleaner, floor squeegee or mop.

HCP helps free dirt and grime from floors almost instantly.

HCP helps hold dirt and grime in liquid suspension for easy removal.

HCP is completely safe for all types of floors.

CLEANS ALL FLOORS FAST! SAFELY!

Super Safety Cleaner, with HCP added, gets rid of floor dirt *fast*. But not at the risk of floor damage. Super Safety Cleaner is *safe*. Field tests have proved it is harmless to asphalt tile, rubber tile, linoleum, terrazzo, concrete, wood, magnesite and all other types of floors. Super Safety Cleaner is *economical*. Because of its high concentration, it goes more than twice as far as ordinary cleaners. Just 1½ ounces added to a gallon of water, even hard or cold water, will do almost all cleaning jobs *fast*. For fast removal of heavier wax build-ups, 8 ounces of Cleaner per gallon of water is recommended.

We Guarantee that Super Safety Cleaner, with HCP added, has been formulated from the finest ingredients under strict quality control, and when used according to directions *must* give satisfactory results.

Super Safety Cleaner with HCP is also available with germicide antiseptic added which eliminates odors and kills harmful bacteria or fungus organisms.

FREE TEST

See for yourself how Super Safety Cleaner with HCP will clean your floors. If you wish, a Multi-Clean distributor will be happy to make the test for you.

Send coupon for your free test. Send it Now! . . . no obligation.



MAIL THIS COUPON TODAY!

MULTI-CLEAN PRODUCTS, INC.

2277 Ford Parkway, Dept. SE-45, St. Paul 1, Minnesota.

Gentlemen: Sure, I'd like a free test for my floors and more information on Super Safety Cleaner with HCP. I understand this puts me under no obligation.

Name _____

Address _____

City _____ Zone _____ State _____

*New dimensions in
quality... durability... economy...*

**posture-engineered school seating by
WESTMORELAND**



Designed around basic principles of good posture, WESTMORELAND tubular and pressed steel seating is laboratory engineered to reduce fatigue, increase student efficiency. Most of WESTMORELAND'S wide variety of classroom furniture styles are available in a broad range of sizes... PROPORTION-SCALED for maximum comfort.

Structural strength assures long years of service, while WESTMORELAND'S modern production methods are your guarantee of highest quality... at an economy that anticipates the most restricted budget!

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DIVISION OF WESTMORELAND METAL MANUFACTURING CORP.

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You are cordially invited to visit our Booth at the following Conventions:

Regional Meeting AASA, Cleveland, Ohio, April 2-6, Booth E 58

National Catholic Educational Association, Atlantic City, N.J., April 12-15, Booth J 12-14

SPOTLIGHT

of Christian Education, commented on the exclusion of teaching about religion in the public schools.

"When education deals with all of life with the exception of religion it creates the impression in the mind of the child that religion is about as important as stamp collecting or some other hobby."

How to teach religion?

The National Council executive acknowledged the wide variety of opinion about how religion should be dealt with in the public schools and a fear of taking sides in evaluating religious movements.

"But," he pointed out, "we cannot teach history without including the contributions of the great religious movements."

"The job of the Protestant churches," Dr. Knoff added, "is to let the schools know we are the best friends they have. We must work with them sympathetically and constructively to provide the best school system possible in this country."

BETTER SCHOOLS BUILD



BETTER COMMUNITIES

Mass. Schools, Colleges Join To Secure Able Teachers

CAMBRIDGE, MASS.—Four Massachusetts school systems and ten Massachusetts colleges are working together on a new approach towards securing able liberal-arts and science graduates for public school elementary and secondary teaching.

With the Harvard Graduate School of Education, they will offer, starting this summer, three routes to a teaching career:

Train in summer

- College plus an intensive summer's teaching experience under the guidance of master teachers.
- Intensive summer training followed by half a year of actual, paid work as a teacher while completing a year

THE SCHOOL EXECUTIVE

No. 1
OF A SERIES

WHAT TO LOOK FOR IN QUALITY TOILET COMPARTMENT CONSTRUCTION

One of many major differences that give you your money's worth in satisfactory service!

Porcena

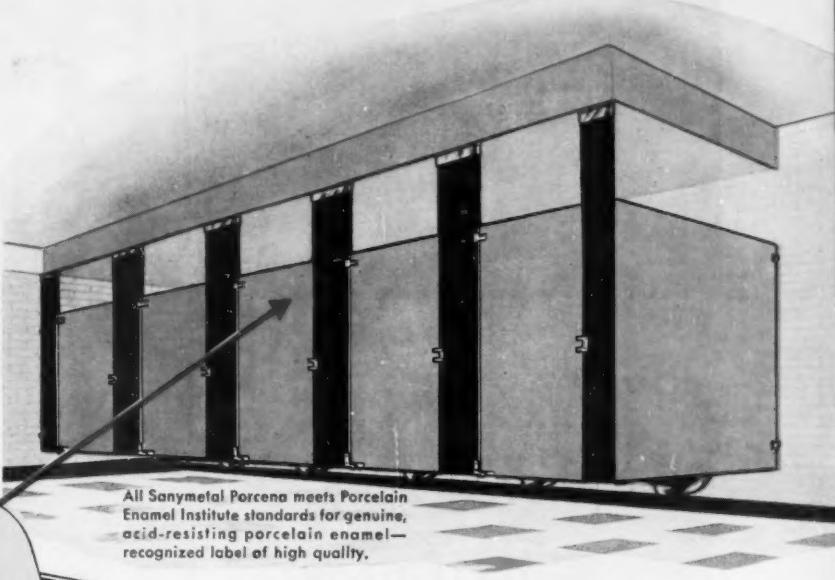
(Vitreous Porcelain on Steel)

**PROVED LOW IN
MAINTENANCE COST BY
19 YEARS' EXPERIENCE**



MINIMUM OF MAINTENANCE—The sanitary flush surfaces of PORCENA are economically maintained. Pencil or lipstick marks are easily removed. Porcena resists cleaning caustics, uric acids, and withstands scratches and shocks, still retaining its original luster.

This long-life feature is obtainable on all SANymetal Flush Type Compartments.



All Sanymetal Porcena meets Porcelain Enamel Institute standards for genuine, acid-resisting porcelain enamel—recognized label of high quality.

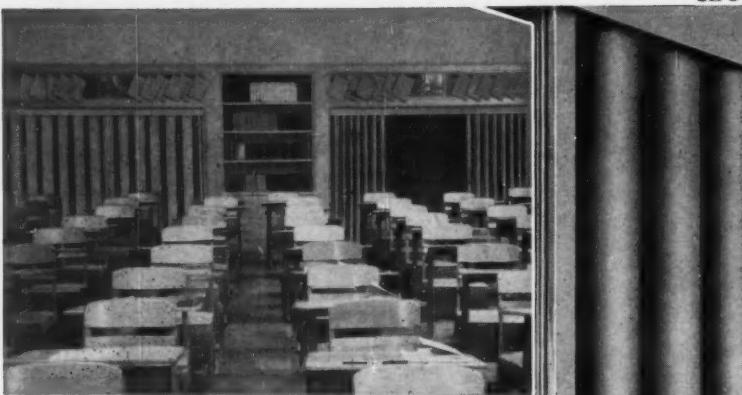
IT IS NOT necessary to gamble on getting long life and low maintenance cost in toilet compartments you specify.

PORCENA, Sanymetal's vitreous porcelain on steel, has proved to have the lowest maintenance cost. It has been in actual use for more than 19 years, with over 2,000 actual installations.* Today the porcelain surfaces of even the oldest are as bright as new after being sponged with soap and water. Not one has faded, failed, required repair, or replacement, due to lack of durability or normal use of the material. Porcena has the hardness of glass and the natural strength of steel—it never requires refinishing.

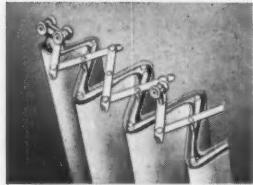
There is nothing "experimental" or "developmental" about Sanymetal Porcena. Sanymetal originated **porcelain enamel** toilet compartments, and thoroughly understands how to make them uniform in durability, color and quality. Porcena is a proven product, one of many Sanymetal features. Ask your Sanymetal Representative about other features you get in Sanymetal Compartments—all of them at no extra cost.

*See Sweet's, or send for Catalog 92 describing all Sanymetal Compartments. If you wish, we will mail other advertisements in this series about quality construction features, and a list of PORCENA installations in your area.

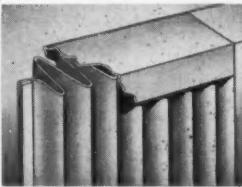
THE
Sanymetal®
PRODUCTS COMPANY, INC.
1711 URBANA ROAD, CLEVELAND 12, OHIO



**YOU GET
MORE
WHEN YOU CHOOSE**

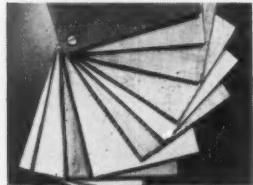


MORE Construction Features — FOLDOR Multi-V design permits less stacking space, eliminates annoying "air bellows," relieves hinge strain, gives silent trouble-free operation.



MORE "Plus" Features

— FOLDOR offers an attractive cornice at no extra cost, and the only truly concealed track. A narrower profile that fits *within* the door frame takes up less space as a room divider.



MORE Fabric Features — FOLDOR vinyl fabrics look and feel like expensive drapery material. New soft shades blend with every color scheme, look stylish in any interior.

FOLDOR means more savings! It puts idle space to active use, divides large areas into more usable units, creates new rooms—without expense of costly remodeling or rebuilding. Before you buy, be sure to get a quotation from the FOLDOR installing distributor listed in your phone book; or write

HOLCOMB & HOKE MFG. CO., INC., Dept. SE-4.

1545 Van Buren Street

Indianapolis 7, Indiana

Please send me further information on FOLDOR.

Name.....

Address.....

City..... State.....

SPOTLIGHT

of graduate study.

- A year of graduate study, with practice teaching—the present pattern at Harvard.

This new program is supported, in part, by a three-year grant of \$150,000 from the Fund for the Advancement of Education. It developed out of three years' experience with the "29 Colleges Co-operative Program" at Harvard.

Pool experience

Under the "29 Colleges" program institutions of higher learning pooled their experience to encourage liberal-arts and science graduate to undertake careers in teaching.

Over the past three years, it has tripled the numbers of these able people preparing for teaching at Harvard's Graduate School of Education.

The "29 Colleges" program will continue parallel with new developments, and, as before, will include scholarship support for students.

Core of the new approach is a unique summer school in Newton, at the Weeks Junior High School. There, 20 master teachers recruited from all over the United States will guide 100 student-teachers and student-observers in the teaching of 300 boys and girls this summer.

Teach while studying

After the summer's training, a few carefully-selected college graduates will be hired to teach, under guidance of master teachers, while completing their advanced studies at Harvard. Their own teaching experiences will become the subject of class analysis in their Harvard studies.

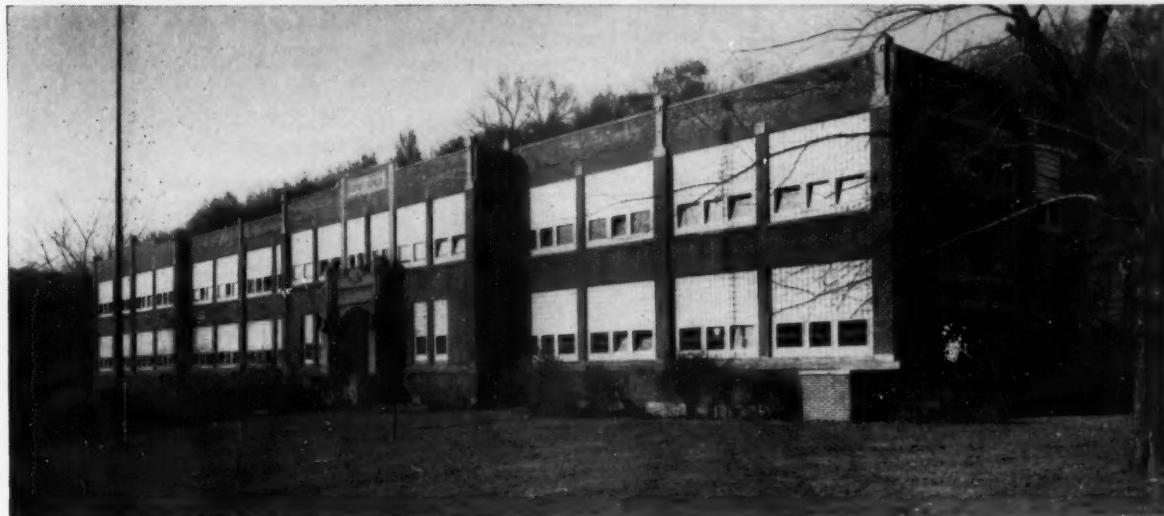
The cooperating school systems are Concord, Newton, Weston and Winchester.

To assure a flow of able college graduates into this program, these school systems will consult with faculty committees of the cooperating colleges.

The colleges are: Amherst, Harvard, Holy Cross, M.I.T., Mount Holyoke, Radcliffe, Smith, Wellesley,

"PC Glass Blocks will return over 13% annually on the investment"

says **D. F. Klinefelter**
Supt. of Buildings & Grounds
Wilkinsburg, Pa., Public Schools



THE TURNER SCHOOL shown here is 15 years old. In those years, with the old wood sash, the following costs were incurred:

ITEM	COST PER YEAR
Paint sash every 5 years @ \$1000	\$200
Wash windows 3 times per year @ \$700 per year	700
Replace 350 lights of glass per year @ \$6 per light	2,100
Replace window shades every 10 years @ \$2700	270
Total window maintenance cost per year.....	<u>\$3,270</u>

These costs were practically eliminated when the windows were modernized with PC Glass Blocks at a cost of roughly \$25,000. Annual return on the investment was about 13% plus an estimated 10 to 15% annual heating bill reduction. Students and teachers are delighted at the new and improved day lighting.

There are dozens of reasons why school officials choose PC Glass Blocks for window modernization, but the above figures tell the *cost* story better than any words.

Consult with your architect or write to Pittsburgh Corning Corporation for more information. Address your letter to Dept. SE-45, One Gateway Center, Pittsburgh 22, Pa.



HERE ARE THE WINDOWS that required so much attention. Notice the characteristic glaring light from the standard sash. Below is the same classroom after PC Glass Blocks were installed. Excellent vision and ventilation is provided by the window ventilation units below the blocks. The good looks of the glass block panels have peeled 10 years off the apparent age of the building.



PC Glass Blocks



ALSO SKYTROL® AND FOAMGLAS®

In Canada: 57 Bloor St. W., Toronto, Ontario

SPOTLIGHT

Wheaton and Williams.

"This threefold approach represents a significant endeavor both to bring added numbers of able liberal arts graduates into school teaching on the one hand, and to relate graduate training in education with the school systems and with the realities of education work," commented President Charles W. Cole of

Amherst.

As a school superintendent, Harold B. Gores of Newton saw three major results:

- Public schools and liberal arts colleges will sit together to ponder teaching and teachers.
- Liberal arts colleges are pledged to take a fresh look at themselves in relation to teacher supply.
- The liberal arts student meets with a prospective employer while still in



college, a pattern similar to the recruiting practices of industry.

"This program offers a new way for more school systems to get into the business of creating new teachers. Indeed, the greatest contribution of this program to the American educational scene may turn out to be that many school systems, in concert with colleges, come to exercise important leadership in recruiting and preparing teachers," Superintendent Gores added.

Keppel praises program

Dean Francis Keppel of the Harvard Graduate School of Education summarized the program:

"In three years, through this new program and the '29 Colleges' Program, we would hope to help in preparing 500 or more teachers. The special value of this approach rests on close cooperation between college professors and school officials."

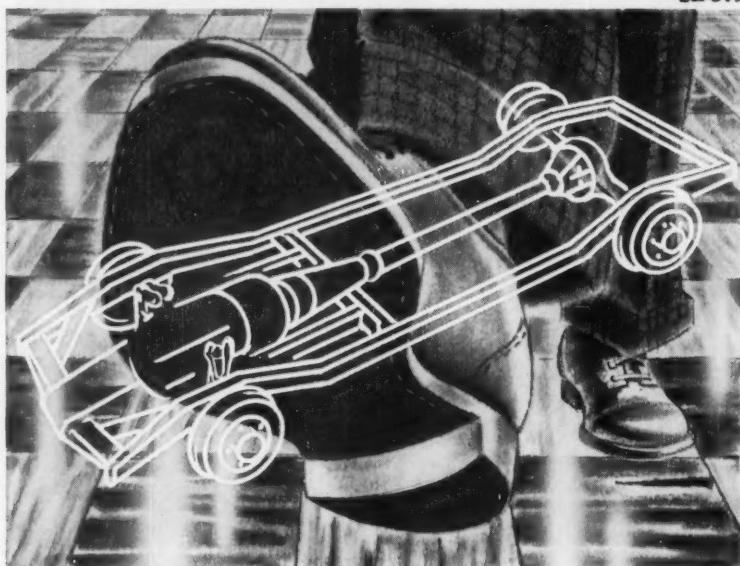
NYU Offers Travel Seminar On W. European Institutions

NEW YORK—For the sixth successive year, the School of Education at New York University is featuring a Seminar on the Peoples and Institutions of Western Europe, featuring seven weeks in England and on the continent, reports C. O. Arndt, professor of education.

Up to eight points of graduate credit may be earned by those enrolled, at an estimated cost of \$775 plus tuition, Dr. Arndt declared.

"Study will be focused on political and socio-economic institutions but particularly educational institutions," he adds, quoting from the description of the seminar.

The seminar will give considera-



Ves-Cote

FLOOR WAX

*Puts 4 wheel Braking Power
on your floors*

Your floors will give sure and effective braking action with each step when they're finished with VES-COTE—because VES-COTE contains the proven anti-slip agent, DuPont's "Ludox"® colloidal silica.

With VES-COTE there is safety in the shine. VES-COTE is lustrous, long wearing, water resistant, easy to apply and dries quickly.



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Underwriters Laboratories.

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TABLES WITH LASIC LAMINATE TOPS AND BENCHES

**CONVERT YOUR GYM
TO LUNCHROOM
... in minutes**

BAND STANDS

**CONVERT ANY HALL
TO CONCERT HALL
... in minutes**

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**CONVERT AN AUDITORIUM
TO BANQUET HALL
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FOR CHOIR PRACTICE
... in minutes**

PORTABLE STAGES

**CONVERT ANY CLASSROOM
TO LITTLE THEATER
... in minutes**

Multiple Use of Floor Space ... is **EASY!**

with the NEW *Erickson* Portable Fold-A-Way
TABLES — RISERS — STAGES — STANDS

THEY FOLD-A-WAY
in only 15 seconds

THEY WHEEL-A-WAY
on rubber casters

THEY STORE-A-WAY
in amazingly little space

Here is the exciting new way to achieve efficient multiple use of floor space. With Erickson extremely portable Fold-A-Way equipment you can convert any area . . . gyms, classrooms, corridors, auditoriums, halls, etc. . . . into the extra space you need.

Take a close look at the units shown on this page. When we say "Convert Your Gym to Lunchroom in Minutes," we mean *minutes*. Each Table with Benches, for example, sets up ready for use in only 15 seconds, by one man, in one simple operation.

This rapid changeover permits, for example, the new Falcon Heights, Minnesota elementary school to convert its gym class to a lunchroom in just 10 minutes. Eight Erickson Portable Fold-A-Way tables are used to seat 300 pupils during the lunch period.

Send us your floor plans. Let our engineers show you how to solve your space problems. No obligation, of course. Write Dept. SE-4 for New Catalog.

H ALDEMAN H OMME MFG. CO.

Dept. SE-4 • 2580 University Avenue, St. Paul 14, Minnesota • NEstor 6139

"We found the answer to our problem"

says JOHN L. FITZPATRICK
Superintendent of Schools
Chicopee, Mass.

Mr. Edwin S. Ogden, Manager
Title Division, Church Manufacturing Co.,
Williamstown, Massachusetts

Dear Mr. Ogdon:

For a number of years, we have
wondered how to keep the stairways of our
school buildings clean and attractive. Heavy
plaster wet covers were heavy but
ineffective. Quotations to make it perman-
ent were pulled to make it perman-
ent. It was impossible to keep and
clean. We have now installed Plastic Wall
and cleaned with over a thousand
students daily.

Recognizing the need for
what would stand the wear and
what would be attractive, we consulted
you and you recommended

"At the end of a full year of use, we found that (Church Plastic Wall
Tile) was the answer to our problem.
"It is reasonable to install . . . is kept attractive with a minimum
of effort, contributes to the brightness and general atmosphere of the
building; and it is, we believe, a sound investment for the stimula-
tion of respect in our pupils, protection of our property, and an in-
expensive cost to our taxpayers."

Very truly yours,
John L. Fitzpatrick
Superintendent

Stairwells in the Chicopee High School get heavy use with daily traffic of over 1,000 students. Church Tile was installed in every stairwell in the building and not only looked better and wore better, but actually promoted students' cooperation in keeping stairwells clean and unmarked.

That's proof of the beauty, utility and economy of Church Plastic Wall Tile.

IF YOU HAVE A PROBLEM

in maintenance or decoration
write us today for colorful illustrated brochure and full information about Church Tile. Please address Dept. S.

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HOLYOKE • MASSACHUSETTS
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PLASTIC WALL

Serving home and industry:

AMERICAN-STANDARD • AMERICAN BLOWER • CHURCH SEATS & WALL TILE
DETROIT CONTROLS • KEWANEE BOILERS • ROSS EXCHANGERS • SUNBEAM AIR CONDITIONERS

SPOTLIGHT

tion to the role which institutions are playing in building citizens, inviting spokesmen from the area in question to participate in the program.

Visit institutions

Visits to schools and social institutions will be arranged whenever possible, according to Dr. Arndt.

Further information is available from Dr. Arndt, coordinator of the seminar at NYU, Washington Square, New York 3.

Science Teachers Offered Summer Fellowship Posts

WASHINGTON—Twenty-four universities have set up a pilot program of summer study during 1955 for high school science teachers to work as research assistants with some of America's leading scientists.

Most of the teachers will receive free tuition for course work and approximately \$400 compensation. This step is being taken to sharpen interest in scientific research because of the growing shortage of well qualified technical personnel in industry and in defense establishments as well as in educational institutions.

The study program grew out of a conference conducted by the Future Scientists of America Foundation of the National Science Teachers Association, NEA, last year.

Transmit enthusiasm

"If research scientists can transmit to teachers some of their enthusiasm and know-how, these teachers can be expected to return to their classrooms in September and transfer their new point of view to students," NSTA said in announcing the program.

Institutions offering the summer study plan are: Clemson Agricultural College, Clemson, S. C.; Cornell University, Ithaca, N. Y.; Creighton University, Omaha, Nebraska; University of Florida, Gainesville; Indiana University, Bloomington, Ind.; University of Illinois, Urbana; Lehigh University, Bethlehem, Pa.; Massachusetts Institute of Tech-



School Master 500

Dual-Purpose Projector

Single Frame Filmstrips • 2x2 Slides

Teachers and administrators everywhere know the brilliant performance, versatility and rugged construction of the School Master 500. 500-watt lamp, super-blower cooling, trunion-type elevating. Uni-way threading, finger-tip framing. Aperture plates for added protection to filmstrips. Switch from filmstrips to slides in 7 seconds! New rewind take-up* accessory automatically returns filmstrips to original container, ready for next showing. Complete with carrying case and heavy duty horizontal transverse slide carrier, \$98.50. Projector only, \$84.50. School Master 300, only, with all major features—300-watt lamp, \$64.50. (*Rewind take-up for either model \$5.95 additional.)

**SVE Instructor
TRI-PURPOSE
PROJECTORS**

- Single Frame Filmstrips
- Double Frame Filmstrips
- 2 x 2 Slides

Simple Operation • Cool Performance

(Model number indicates lamp wattage)

Instructor 300.....	\$ 89.50
Instructor 500.....	109.50
Instructor 750.....	139.50
Instructor 1000.....	
AC only.....	189.50
AC-DC.....	219.50

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New SVE Catalog and Booklet
Hundreds of Filmstrips and Slide Sets listed and described. Indexed for easy selection. Send for your copy today.

"Teaching with a Filmstrip"—an interesting and informative booklet.

21

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Please send me, without obligation, the SVE literature checked below:

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Only Trane KB* Unit Ventilators

no matter



**A Trane Unit Ventilator with Kinetic Barrier* action
operates every minute room is occupied . . . stops drafts,
ventilates every corner uniformly, ends stale-air spots!
And . . . it's whisper quiet!**

Modern walls of glass have opened up the classroom . . . invited the sun and the light . . . and chilling downdrafts!

Yes, modern schools have actually *created* a problem: A steady stream of icy air flowing down along walls of glass, over the sill and into the classroom. Drafts that can annoy and chill, not just now and then, but *every minute* of the day.

Therefore, any system designed to stop this flow of cold air must operate,

not just now and then, but *every minute* the room is occupied.

TRANE—and *only* TRANE—has the Unit Ventilator that does this. TRANE's draft-stopping Kinetic Barrier action operates *full-time . . . even when the heat is off!*

Actually, the "blanketing" of windows during the *heating cycle* has been common practice for years. But this still leaves pupils exposed to downdrafts since *cooling* with outside air is required

about 75% of the time, even in winter. There must be a full-time draft barrier. And only TRANE has it!

What's more, since the special fans in this unit operate full-time, the air delivered from the wall-to-wall wing ducts is under *constant pressure* for truly *uniform* ventilation. Cold corners, stale-air spots—gone like that! And since these fans are *low-velocity* fans, they're actually *whisper quiet!*

For full details have your architect, engineer or contractor contact his nearby TRANE Sales Office, or write TRANE, La Crosse, Wis.

*Kinetic Barrier refers to the wall of continuously upward-moving air provided by TRANE KB Unit Ventilators. This action reverses window downdraft, induces flow of room air, blends it with main air stream from unit.

stop drafts all day long...

whether the units are heating, ventilating, or cooling!



EVERY FEATURE FOR LOW MAINTENANCE, QUIETER OPERATION, LASTING BEAUTY!

- **Rubber dirt seal** on back of unit and felt pad under unit seal out dirt, prevent heat streaks.
- **Removable panels** give easy access to all 3 sections. Simplify servicing, cleaning.
- **Trim intake boxes** of aluminum, anodized aluminum or copper give attractive exterior walls.
- **Exclusive bearing-shaft** arrangement assures unusually quiet operation.
- **Resilient motor mounts** help stop noise, vibration—assure smooth operation.
- **Low velocity fans** are unusually quiet, deliver large quantities of air.
- **Baked on finish** is extremely resistant to scuffs, bumps and kicks. Always attractive.
- **Decorator styling** adds beauty to any room. Available in six colors or finished with prime coat.
- **Color-keyed tops** of standard gauge linoleum available in six colors. Pick up color scheme of room, blend with or complement TRANE standard finishes.

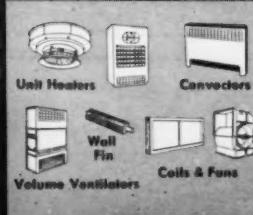
TRANE TORRIDOR delivers large volumes of heated air long distances, with or without ducts.



TRANE WALL LINE Convector bring draft-free heating to long wall and window runs.



MATCHED TRANE PRODUCTS for all your school heating and ventilating needs.

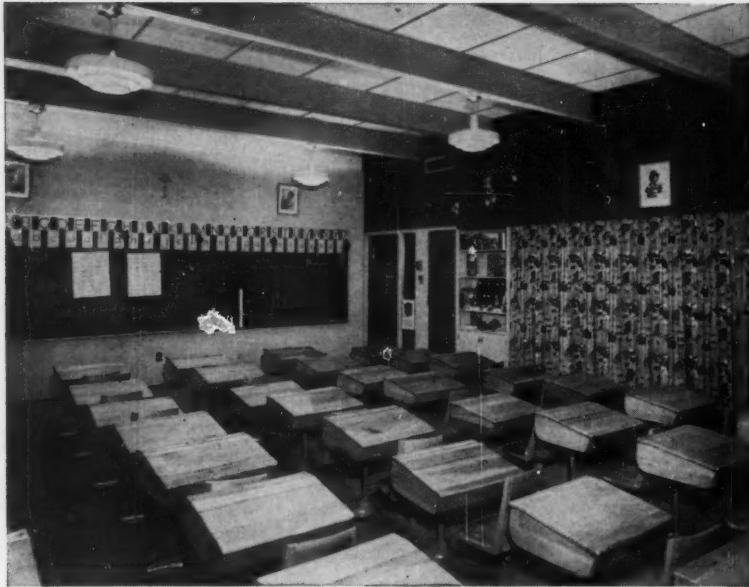


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MANUFACTURING
ENGINEERS

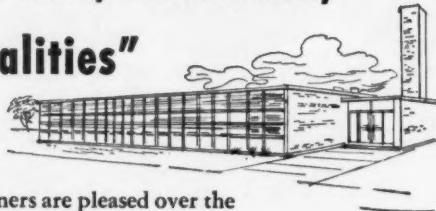
*One source, one responsibility for:
Air Conditioning • Heating • Ventilating
Heat Transfer Equipment*

The Trane Company, La Crosse, Wis. • Eastern Mfg. Div., Scranton, Pa. • Trane Co. of Canada, Ltd., Toronto • 90 U.S. and 15 Canadian Offices



Architects: Diehl and Diehl, Verne H. Sidnam, Associate.
Detroit, Our Lady of Victory School

"Happy over 9-value Tectum® deck's appearance, insulation, acoustical qualities"



Architect, builder, and owners are pleased over the "great economy of Tectum as a roof deck, serving also as decorative textured ceiling, with high insulating and acoustical values" in Our Lady of Victory Parish School, Detroit.

Tectum tile $1\frac{3}{4}$ " thick was used on exposed beams throughout this modern one-story building. Its other values — structural strength, stability, resistance to fungus and rot — will keep maintenance at a minimum for the years ahead. Noncombustible Tectum reduces both fire hazards and insurance rates. Only Tectum offers so many qualities in one quality product.



SEE IT NOW! Ask for 1955 technical data or refer to Section 2e/Te, Sweet's Architectural File.



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SPOTLIGHT

nology, Cambridge.

University of Miami, Coral Gables, Fla.; Michigan State College, East Lansing; University of Montana, Missoula; New York University, N.Y.; Oklahoma Agricultural and Mechanical College, Stillwater; Oregon State College, Corvallis; University of Pittsburgh, Pittsburgh, Pa.; Rice Institute, Houston, Tex.

List Colleges

University of Rochester, N.Y.; Southern Illinois University, Carbondale, Ill.; Stevens Institute of Technology, Hoboken, N.J.; Syracuse University, N.Y.; Tennessee Agricultural and Industrial State University, Nashville; Agricultural and Mechanical College of Texas, College Station, Tex.; Tufts College, Medford, Mass.; State College of Washington, Pullman.

Additional information may be obtained from the graduate schools of the cooperating institutions and announcement-application forms are available from the Future Scientists of America Foundation, National Science Teachers Association, 1201 Sixteenth Street, N.W., Washington 6, D.C. Applications close April 10.

Conference Calendar

APRIL

1-4, National Convention, National Association of Deans of Women, NEA, Chicago.

2-6, Regional Convention, American Association of School Administrators, NEA, Cleveland.

3-7, Annual Convention, American Personnel and Guidance Association, Chicago.

10-16, International Conference, International Council for Exceptional Children, NEA, Long Beach, California.

11-16, Third National Conference, National Art Education Association, NEA, Cleveland.

18-22, National Convention, Department of Audio-Visual Instruction, NEA, Los Angeles.

(Continued on page 150)

Wakefield Lighting:

Flexible as Your Classrooms

is the title of a new 36-page booklet which will be of assistance to you when planning flexible classrooms, either new or remodeled.

If the classroom is to be flexible then the lighting that goes into it must be flexible too. With this thought in mind, Wakefield has prepared

a booklet which covers the subject of classroom flexibility in all its phases, with suitable emphasis on the role of lighting. Subjects covered include:

- The Concept of the Total Luminous Environment
- Vision and Learning
- Adaptation
- Task Lighting Needs
- Hemispherical vs. Spherical Light Distribution
- Reference Centers
- Orientation
- Typical Flexible Classrooms
- Flexible Multi-Function Ceilings
- Types of Lighting Units

The school administrator and architect will find here many ideas that will stimulate their own thinking on the ever present subject of

classroom flexibility. A copy of the booklet, recently off the press, will be mailed promptly upon receipt of a filled-in coupon.

THE F. W. WAKEFIELD BRASS COMPANY
VERMILION, OHIO

or

WAKEFIELD LIGHTING LIMITED
LONDON, ONTARIO, CANADA

Please send me a copy of your new booklet, WAKEFIELD LIGHTING: Flexible as Your Classrooms.

NAME _____

SCHOOL SYSTEM _____

TITLE _____

CITY _____ ZONE _____ STATE _____



USE your Bogen sound system for 2-way intercommunication with any classroom, for distributing recorded programs, radio broadcasts, activities originating from any classroom, emergency announcements, and for the many original applications you will think of yourself.

REGARDLESS of how much more you might spend, you cannot buy a more practical or more dependable sound system than a Bogen. Functionally designed according to the recommendations of the U.S. Office of Education, and built by the country's largest manufacturer of sound systems: David Bogen Co., Inc.

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Bogen
sound system

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David Bogen Co., Inc. Dept. L-D
29 Ninth Ave., New York 14, N.Y.

Please send me your catalog of Bogen Centralized School Sound Systems.

name _____

position _____

school _____

address _____

city _____ state _____

CALENDAR

(Continued from page 148)

26-30, National Convention, American Industrial Arts Association, NEA, Atlantic City, New Jersey.

MAY

2-4, Thirty-fourth Annual Convention, National Association of Educational Buyers, New York.

JUNE

12-14, Annual Meeting, Future Business Leaders of America, sponsored by the United Business Education Association, NEA, Chicago.

13-16, Nineteenth Annual National Conference, National Association of Student Councils and National Association of Secondary-School Principals, NEA, Ardmore, Pennsylvania.

JULY

3-8, Ninety-third Annual Meeting, NEA, Chicago.

4-7, Twentieth Annual Meeting, National School Public Relations Association, NEA, Chicago.

LETTERS

(Continued from page 15)

Why, thanks!

TO THE EDITOR: I am leaving for home in a few months. I am a foreign student on this campus, and pretty soon I shall be packing my bags for the trip home.

I really enjoyed reading your magazine and I always looked forward to its coming. There were not a few ideas I got from you concerning school administration which is my major field of study. However, I shall not forget to put you on my subscription list when I reach the Philippines.

Thanks for the pleasure of your acquaintance, and for the wonderful articles you always had, month after month. My sincere congratulations to your editor and to the whole staff for their good work.

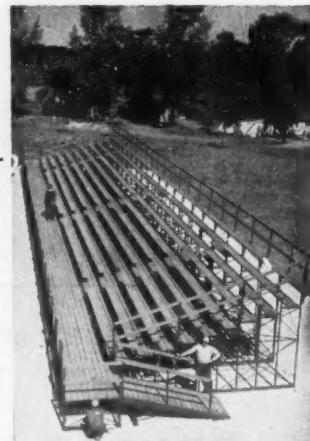
EVELINA MARONILLA SEVA
Oklahoma Agricultural and
Mechanical College
Stillwater, Okla.

(Continued on page 152)

The **RIGHT** Bleacher for **EVERY** Installation

is a

LEAVITT BLEACHER



Permanent or Portable, Indoor or Outdoor, Wood or Steel

Name your requirements—Leavitt has a specially engineered unit designed with your purpose in mind.

CHECK . . .

✓ LEAVITT'S

record for Safety.
59 years of safely seating millions of spectators.

✓ LEAVITT'S

record for Quality.
Materials and workmanship defy comparison.

✓ LEAVITT'S

reputation for Advanced Design.
Careful study coupled with years of experience results in a rugged combination of comfort, beauty and utility.

This portable Leavitt Steel Grandstand will seat your outdoor crowds safely and comfortably for many years.

REMEMBER LEAVITT ALSO FOR:

- Knockdown portable Wood Bleachers
- Add-a-seat Permanent Steel Stadiums
- Famous Telescoping Bleachers

the right bleacher for EVERY installation is a Leavitt Bleacher.

LEAVITT bleacher Co.

208-220 Griggs St., Urbana, Illinois

Write, phone or wire
today for free cata-
logue and full in-
formation.

How to provide quiet service in a busy cafeteria!

The owners of the L-C Cafeteria, Houston, Texas report a 65% reduction in noise since a J-M *Variety Drilled Fibre-tone Ceiling* was installed. Customers dine in quiet comfort—enjoy the more attractive surroundings provided by this modern acoustical ceiling.



Johns-Manville

FIBRETONES ACOUSTICAL UNITS

reduce disturbing noise at low cost

- Because distracting noise is so harmful to efficiency in any activity, practically all new building specifications include acoustical ceilings for sound absorption. However, just because your present building was constructed before sound control became an established science, there is no reason for you to be handicapped by noise. You can have a Johns-Manville Fibre-tone® Acoustical Ceiling quickly installed over your present ceiling.

Johns-Manville Fibre-tone offers an acoustical ceiling which is highly efficient, modest in cost and decorative in appearance. Uniform Drilled Fibre-tone consists of 12" square panels of sound-absorbing materials in which hundreds of small holes have been drilled. These holes act as

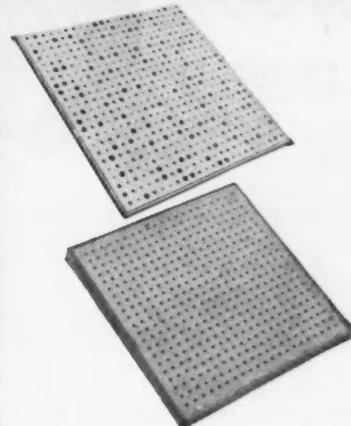
"noise traps" where sound energy is dissipated.

Variety Drilled Fibre-tone, recently developed by Johns-Manville, offers a new and pleasing effect in acoustical ceilings. The hundreds of small holes vary in size . . . create a distinctive, appealing ceiling design.

Both Uniform and Variety Drilled Fibre-tone units are predecorated, can be painted and repainted, and are available with a flame-resistant finish.

For a complete survey by a J-M acoustical expert, or for a free book entitled "Sound Control," write Johns-Manville, Box 158, Dept. SE, New York 16, N. Y. In Canada, write 565 Lakeshore Road East, Port Credit, Ontario.

*Reg. U. S. Pat. Off.



Variety and Uniform Drilled Fibre-tone units are easily installed over new or existing construction. Hundreds of small holes drilled into the sound-absorbent panels increase acoustical efficiency.



**40 years of leadership
in the manufacture of
acoustical materials**

if you need space...

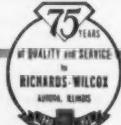


...you
need

More efficient use of all available space . . . in many schools that's the only answer to over-crowding. That's why more and more schools are turning to R-W acoustically-constructed FoldeR-Way Partitions—the multi-purpose folding walls—to help relieve congestion. Closed, they transform one big room into two sound-insulated classrooms . . . providing a laboratory tested sound-retarding value that effectively muffles even loud talking!

R-W Classroom Partitions are easy to operate, even for a child . . . making them ideal for all medium-size openings where manual operation is preferred. Available in a variety of operating types, standard equipment includes choice of chalkboard, corkboard or wood veneer, duck and plastic coverings to meet all interior design specifications. Other R-W school equipment includes fully automatic FoldeR-Way Partitions and Classroom Wardrobes.

Write for descriptive catalogs.



SLIDING DOOR HANGERS & TRACK • FIRE
DOORS & FIXTURES • GARAGE DOORS &
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SCHOOL EQUIPMENT DIVISION
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SE-392

LETTERS

(Continued from page 150)

Lonesome for America

TO THE EDITOR: I am Cakmakcioglu—the teacher, the administrator and the lover of America. Now I am at home.

Since I arrived in Turkey, homesickness became America-sickness. Really, all my dreams are full of those happy days—the nice people, the beautiful cities, etc.

I am now director of the Teacher Training College in Balikesir which opened this year.

Greetings to your kind and perfect journal's staff.

ADNAN CAKMAKCIOLU
Director
Teacher Training College
Balikesir, Turkey

(Note: THE SCHOOL EXECUTIVE interviewed Mr. Cakmakcioglu while attending the 80th annual AASA convention at Atlantic City, February, 1954. See April, 1954, page 110.)

Nail on the head

TO THE EDITOR: I have just read your article *Values of AASA Membership* in the March issue (page 7), and I want to express my congratulations.

This hits the nail on the head and should inspire more administrators to unify their efforts by becoming members of AASA.

REX PUTNAM
*Superintendent of
Public Instruction
State of Oregon
Salem, Ore.*

Forthright comments

TO THE EDITOR: I wish to express my deep appreciation for your editorial in the March issue on the *Values of AASA Membership*.

Coming from one who has had long and broad experience in school administration and who has also observed it from the viewpoint of an editor, your forthright comments ring true.

JORDAN L. LARSON
*President, AASA
Superintendent of Schools
Mount Vernon, N. Y.*

THE SCHOOL EXECUTIVE

**"I especially recommend
Seal-O-San Gym Floor Finish"
for floors that get heavy use**

Ernest Joslyn

Ernest Joslyn
Head, Department of Maintenance



*This attractive gym
Floor is kept in tip-top
shape with Seal-O-San
Gym Floor Finish.*

**10 YEARS OF USE proves
these outstanding advantages . . .**

For 10 years, Middleburgh Central School has used Huntington maintenance products exclusively because Mr. Ernest Joslyn, head of maintenance, relies on their dependability. He states, "I have found that, for ease of application, coverage, wearability and a fine finished appearance, Huntington seals and waxes are far superior to any other brands, used under the same conditions, that I have tested."

The gym floor at Middleburgh is finished with Seal-O-San to get maximum utility from the surface. Mr. Joslyn reports, "I especially recommend Huntington Seal-O-San gymnasium finish, which I believe to be the best on the market today."

For good protection and easy maintenance, rely on Huntington products. Let one of our trained representatives advise you on floor care. There's no obligation.

HUNTINGTON LABORATORIES

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CORRIDORS AT MIDDLEBURGH ARE PROTECTED
AND BEAUTIFIED WITH HUNTINGTON WAXES.



MIDDLEBURGH CENTRAL SCHOOL
MIDDLEBURGH, NEW YORK



Clarin
JUVENILE CHAIRS
are really made for Children
... Every Age and Height

Posture-designed—in 12", 13", 14" and 15" seat heights—Clarin now offers you a juvenile chair for every age group. Engineered to the same quality standards as Clarin adult chairs, the Juveniles are light, stable, easy to carry, will not collapse, tip or fold, even though a child stands on them. Because Clarin Juveniles are scientifically designed for comfort and healthful posture, children are far less apt to get restless sitting in them. Available in colors children adore—Fire-Engine Red and Kelly Green. Also in popular Opal Grey and Bronze.

Write today for full details and moderate prices.

Clarin

ENGINEERED QUALITY MAKES

For Your Every Need *Clarin* Offers You The World's Only Complete Line of Folding Chairs

Shown here are 3 types of the many specially designed Clarin Chairs in use in American schools today. Other special types include the narrower Utility Model . . . the Band and Typing Chair with more erect pitch . . . Ganged Chairs for auditorium use . . . the Cafeteria Chair with 18" seat height . . . and the famous folding Kneeler Chair for chapel use. Whatever the special need it serves, every Clarin chair is engineered and built to just one standard—the highest. In quality of materials, in functional design, Clarin Chairs are built to give a lifetime of service. That is why thousands of them are still in service after 25 years of use.

Save Time...Save Up to 25% Storage Space

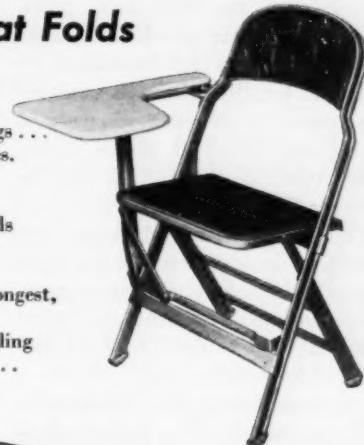
Clarin Chairs are so constructed that they fold flat at a touch within their own frame. This compactness lets you handle them more easily and pile them higher in safe, non-wobbly stacks. You can handle them faster, need fewer trucks for moving, and far less storage space.

The Famous *Clarin* Tablet Arm Chair That Folds

Here are both table and chair in one perfectly engineered unit. In a moment, with this chair, you can make even a small room ideal for overflow classes . . . faculty meetings . . . lectures . . . music groups . . . special exams . . . conferences. The Clarin is the only folding tablet arm chair built whose tablet arm can fold down out of the way when you need the chair for seating only. It folds flat in seconds to 3" depth for storage in minimum space.



CLARIN CHAIRS are backed by the Only Written 10 Year Guarantee in the Industry.



You be the Judge... Get the Facts... Make Comparisons...

Once you know the actual facts of how quality is built into Clarin Chairs—once you compare them with any other folding chair—you'll know why only Clarin Chairs can satisfy you. Write today for Clarin's FREE Illustrated Catalog of the only complete line of steel folding chairs. Or, tell us what type of chair you're interested in and let us send or bring you a sample to examine.

Clarin Mfg. Co., Dept. 20, 4640 W. Harrison St.
 Chicago 44, Ill.

THE BIG DIFFERENCE IN FOLDING CHAIRS

WASHINGTON SCENE /

news from the Capitol affecting education

The President's proposals

"For the consideration of the Congress, I herewith propose a plan of federal cooperation with the states, designed to give our school children as quickly as possible the classrooms they must have."

It was early February and a clerk was reading these words from the President of the United States to the combined Houses of Congress.

The long heralded "special message on education" had come to Congress a week or two in advance of the proposed date. A note of urgency accompanied the President's message—an air of mystery too, because no sustained consultation had been held by the President's advisors with educators.

The urgency was real, not only because of the educational crisis, but because the gavel had closed the hearings on S.5 introduced by Sen. Lister Hill (D-Ala.) and co-sponsored by 29 other members of the Senate from both parties. Unless and Administration bill got into the hopper S.5 might prevail.

S.5 provides for substantial federal aid in direct grants to states to relieve the shortage in the nation's classrooms now estimated at 350,000 and in 1960 at 600,000 if no federal action is taken.

Representatives of education in Washington, therefore, listened closely at their radios as the message from the White House was read to the Congressmen. The President mentioned "the undeniable importance of free education to a free way of life. . . the phrase 'free education' is a deliberate choice, and unless education continues to be free—free in its response to local community needs, free from any suggestion of political domination, and free from impediments to the pursuits of knowledge by teachers and students—it

will cease to serve the purpose of free men."

The President's philosophy of education was carefully outlined before the proposals in his message were named. He not only especially stressed the need for a system of schools as the guardians of the individual worth and dignity which characterizes a democratic government, but he stressed also the necessity of keeping the public schools close to the people so that they might reflect the aspirations of parents and other citizens for their children and their community.

The President closed his recommendations with a stirring tribute to American teachers and a plea for aid to them. "Today," he said, "the professional quality of teaching is better than ever, but too many teachers are underpaid and overworked, and in consequence, too few young men and women join their ranks. Here is a shortage, less obvious, but obviously more dangerous than the classroom shortage."

Recognizes school's value

Never had a White House message to the legislators more clearly recognized the importance of education in the national life nor so positively called for immediate action in its support.

For the proposals of the President, the educators displayed less enthusiasm. These proposals were incorporated in a bill numbered S.968 and introduced by Senator H. Alexander Smith of New Jersey for himself and seventeen other members of the Senate. In general, the bill proposed loans instead of direct grants in aid for school construction. (see Spotlight, March, page 119)

The various types of federal boosts to school construction total \$1.1 billion, mostly on a three-year basis. It is hoped by the Department of

Health, Education and Welfare, in the offices of which this measure is said to have been drawn with the advice of investment bankers and other citizens not engaged in educational pursuits, would result in the expenditure by the states themselves of \$6.0 billion.

For this reason, the measure was headlined in some newspapers as a "seven billion dollar" school construction bill, although the average annual amount coming from the federal government would be about \$70.0 million per year.

Educators unenthusiastic

The gavel sounded again for the opening of a new hearing, on the bill introduced by Senator Smith. This time educators had their chance to give their opinions on the proposed legislation. None gave the measure more than token approval.

Edgar Fuller, executive secretary of the Council of Chief State School Officers, read into the record a blast of criticism which he had received from 31 state educational officials, none of which saw in the Administration measure any real help in the present crisis.

William G. Carr, NEA executive-secretary, appeared before the Senate Committee to testify on aid to education for the fourth time in a year. He complimented the President for his "unprecedented special message" which focused the attention of Congress and the American people on the straits in which the public schools find themselves today. He expressed appreciation for the President's high estimate of the professional service of the American teacher.

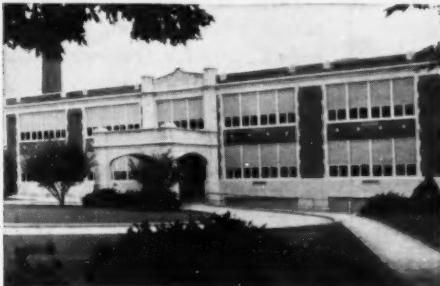
However, he estimated that S.968 would provide "much too little aid and much too much control."

"Unless the bill is amended to remove unnecessary restrictions and control, the National Education As-



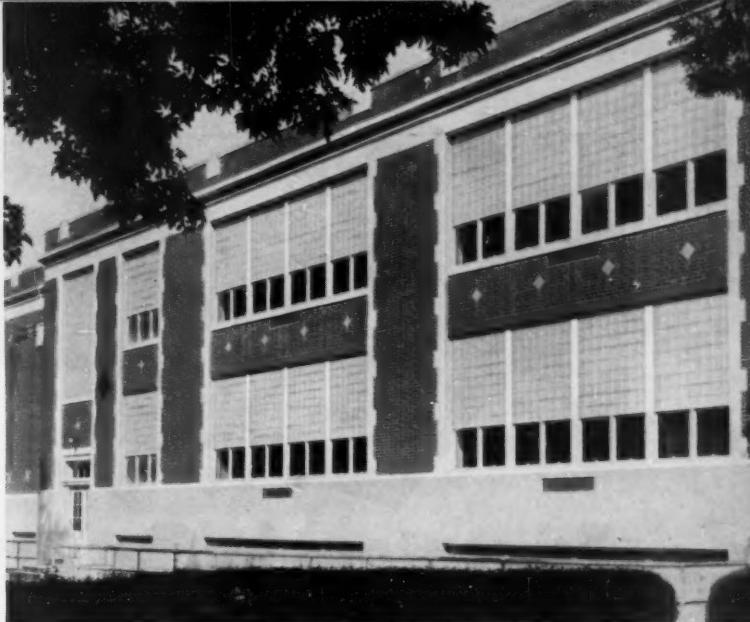
BEFORE

Worn sash let in wintry blasts. Teachers had to continually adjust shades to cut glare. Natural light in rooms was cut and the school presented a patchwork appearance from unevenly adjusted shades.



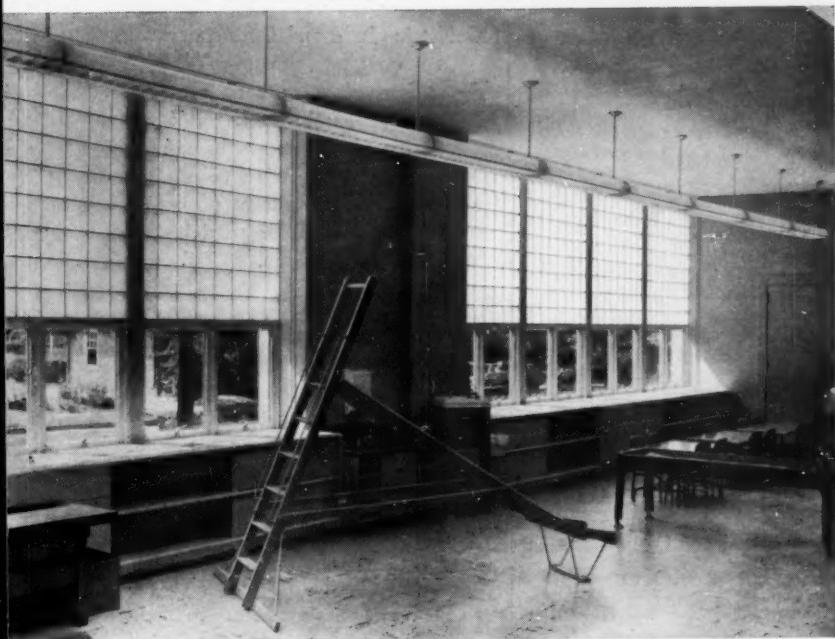
AFTER

See how Owens-Illinois Glass Block improve the appearance of the school. Glass block panels insulate so efficiently and daylight so effectively, heating and lighting costs are cut.



New panels of glass block have practically eliminated maintenance costs. Glass block won't rust or rot, are hard to break. What a change from the old windows which needed constant, expensive maintenance and did not provide healthful daylighting throughout classrooms.

Owens-Illinois Glass Block* solved a maintenance problem while providing better light



With panels of glass block, daylight is directed upward and diffused over all parts of the schoolroom all day long. The combination of light-directing glass block and vision strip keeps brightness at comfortable levels, provides vision and ventilation. Excessive glare and harsh contrasts are eliminated.

THE Wyomissing School at Wyomissing, Pa., was in the same condition as hundreds of other schools across the country. Window sash were worn out and maintenance was a continuous, costly job. Glare, harsh contrasts and inadequate light were big problems.

Replacement with panels of Owens-Illinois Glass Block solved their problem. If you are in the process of remodeling old structures, or building new ones, don't overlook the positive advantages—maintenance economies, better seeing conditions—that panels of glass block bring. For complete information write Kimble Glass Company, subsidiary of Owens-Illinois, Dept. SE-4 Toledo 1, Ohio.

*Formerly known as INSULUX

OWENS-ILLINOIS GLASS BLOCK
AN **(I)** PRODUCT

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GENERAL OFFICES • TOLEDO 1, OHIO



Educators hail new simplified school intercom!

More Efficient—Costs 50% Less than Complex Sound Systems!



Executone gives you instant voice-to-voice contact with every part of the school

Easier, more efficient administration can be achieved with this modern **low cost** intercom system. Executone meets all essential communication needs of every school!

Just push a button—for instant two-way contact with every classroom . . . to quickly locate roving personnel . . . to make announcements.

Teacher's privacy protected—Principals can study teaching methods via Executone. An optional indicator lamp signals when the "line" to a class is open. Calls to principal's office are signalled by chime and light.

Emergencies—During fire, or air raid

drills, Executone prevents confusion . . . quickly locates nurse or doctor . . . safeguards life and property.

Easy to operate — dependable—This simplified intercom system has no complicated control panels . . . no microphones . . . no headsets or telephone receivers.

Easily installed in existing and proposed schools. Large or small schools can expand their Executone with record turntables, radio tuners and public address speakers.

A time clock can be used in conjunction with Executone to automatically signal class periods.

Executone
SCHOOL INTERCOM SYSTEMS

Manufacturers of School-to-Home telephone equipment for shut-ins

Mail coupon today! →

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Without obligation please send:

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 Name of nearest representative.

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WASHINGTON

sociation must oppose it. The purpose of the bill is stated as being 'to provide assistance of a substantial nature.' It will not provide such assistance. I hope the bill can be substantially modified to provide some genuine Federal assistance."

Erick L. Lindman, professor of school administration, George Peabody College for Teachers, Nashville, Tenn., said "proponents of S.968 predict that the bill will generate \$6 or 7 billion in school construction at virtually no cost to the Federal Government. Realism compels us to ask 'who then is to pay the bill?'

"Actually, S.968 places the burden primarily upon the local property taxpayer with such assistance as each state chooses to give. Federal financial participation is meager and illusive."

Support for the bill came from the following: John W. McLean, executive-secretary, American Institute of Architects; Cushman McGee, Pressprick and Company, New York; George Lenind, Pressprick and Company, New York and Orrin G. Judd, Goldstein, Judd and Gurthein, N. Y.

The loud acclaim of the *Wall Street Journal*, and other representatives of the fiscal world, was interpreted as keen interest in the \$6 billion worth of local school district bonds, the expenditure of which would be required for participation in the federal program.

"Stop gap" measure

The bill introduced by Senator Smith is admittedly a "stop-gap" measure. Its proponents claim quick action in the emergency. Most of them call attention to the fact that the White House Conference may recommend a long-time program with more comprehensive federal aid.

Whatever evaluation is placed upon the measures now before the Senate and introduced as companion measures in the House, it must be recognized that at no time has the Federal Government more fully acknowledged its responsibility in the education of American youth.

MICARTA ENHANCES FUNCTIONAL DESIGN OF BRUNSWICK SCHOOL FURNITURE

Brunswick's new line of classroom furniture is both uniquely flexible and exceptionally durable—and much of the credit goes to its MICARTA surfacing.

Brunswick specified MICARTA because this attractive, super-tough plastic makes an ideal work surface for all kinds of school activities from writing or painting to food preparation. This is because MICARTA offers amazing resistance to scuffs, scratches, stains and burns. It's a material that never needs waxing, polishing or refinishing. It cleans to a gleam with the swish of a damp cloth.

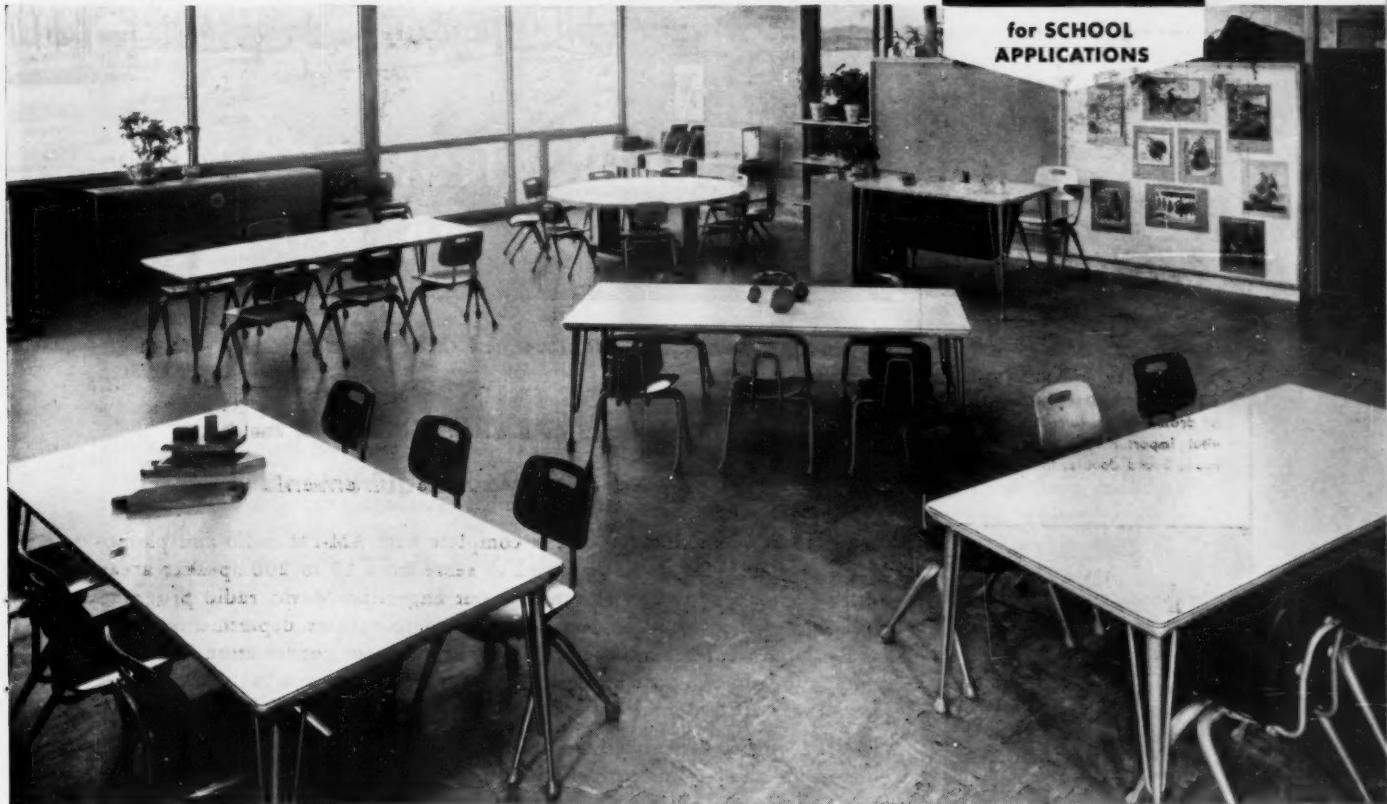
There are many applications for durably beautiful MICARTA in every school. On table tops, desk tops, counters, chairs, walls or wainscoting, its hard working properties will continually return substantial savings in upkeep costs. Look into this cost-saving opportunity today. Simply use the coupon.

J-06603



for SCHOOL
APPLICATIONS

Classroom furniture by Brunswick-Balke-Collender Company in use at Southwest Elementary School, Evergreen Park, Illinois.



Westinghouse **micarta**

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largest plywood organization in the world
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United States Plywood Corporation
55 West 44th St., New York 36, N. Y.

Please send full information on MICARTA for school applications.

Name _____

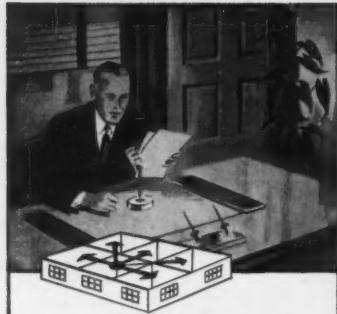
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City _____ Zone _____ State _____

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From

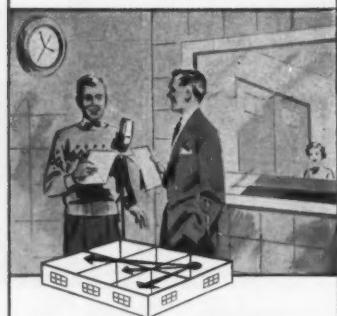
RCA...The Miracle of



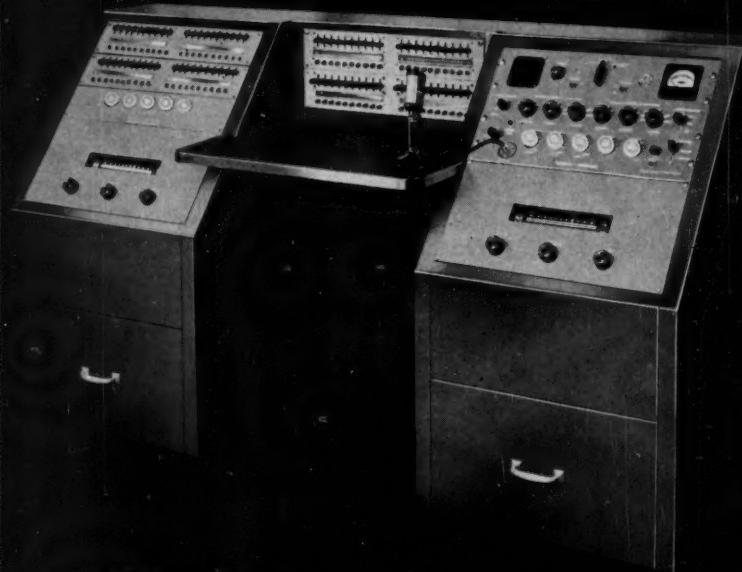
STREAMLINED ADMINISTRATION—RCA Sound gives you instant voice contact with any or all classrooms. Saves time-wasting steps. Complete coverage for vital instructions in emergencies.



A BROADER CURRICULUM—RCA Sound introduces new concepts of drama, music, current events of vital importance, into the classroom. Sound doubles their interest.



INCREASED STUDENT ACTIVITIES—RCA Sound gives students a novel medium for group activity. Note their new interest in debates, round-table forums, when microphone and loudspeaker add that "professional" touch.



Here's a MODERNIZATION PROGRAM your school can well afford

You can quickly give your school new character and efficiency with an

RCA SOUND SYSTEM

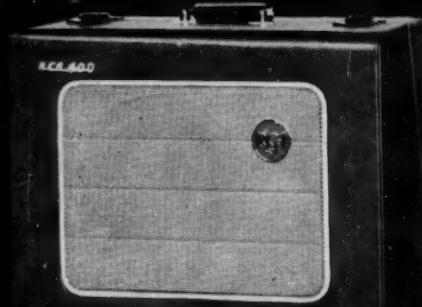
Tailored to fit your requirements

The RCA Full-Function Console is complete with AM-FM radio and phonograph turntable. It can be equipped to serve from 10 to 200 speaker areas, with selection of any or all rooms at your fingertips. Music, radio programs and your own instructions can be delivered to various departments simultaneously. An intercom system, providing two-way conversation with any room at the flip of a switch, can be included in the Console keyboard now or later. Every RCA Sound System is tailored to fit your needs—and budget.

Installed without interruptions—Call in your RCA Sound Distributor, review your needs and get his low estimate on RCA equipment *engineered* for the job—equipment whose performance is backed by nearly 30 years of research by the world leader in sound, and thousands of school installations. Then note the quiet efficiency with which his technicians go about their work *after school hours*, with no disturbance to you or to classes. Want more information? Just check and mail the coupon today!

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This is the machine teachers favor for its utter simplicity and dependability—the one that requires no technical knowledge or mechanical skill to operate. With the simplest instructions, you can thread the film and get a *real* show going in less than a minute! And the RCA "400" mechanism and sound system (visual or magnetic) need no pampering for perfect results. Teachers and pupils alike quickly acquire confidence in their ability as RCA "operators."

Eyes, ears and minds are wide open to the per-

sulsive influence of pictures with voices and sounds. Music, languages, dramatics, current events take on richer significance when presented audio-visually. Teachers can draw on an infinite variety of subjects to make their own efforts more effective and more enjoyable. To get the most from the films you choose, get the best in sound projectors. Your RCA Audio-Visual Dealer will gladly demonstrate the reasons why teachers everywhere have the most confidence in the RCA "400." The coupon below will help you decide.



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- Information on RCA "400" Senior and Junior Sound Projectors.
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SCHOOL LUNCH

The new steel-paneled East Dining Hall is an attractive addition to Miami University's campus at Oxford, Ohio.



Steel Dining Hall for Miami

by W. E. McFEE

Male students of the Pines residential area of Miami University, Oxford, Ohio, were in need of a dining hall that would accommodate up to 600 students. But funds would not be available for some time to build dining facilities to match existing architecture on the campus.

Therefore, the current problem was to provide a modern dining room for students from three residence halls at moderate cost as quickly as possible. And, the building had to be convertible to other uses in

view of the university's long range construction plans to build another residence eventually housing dining facilities for the entire area.

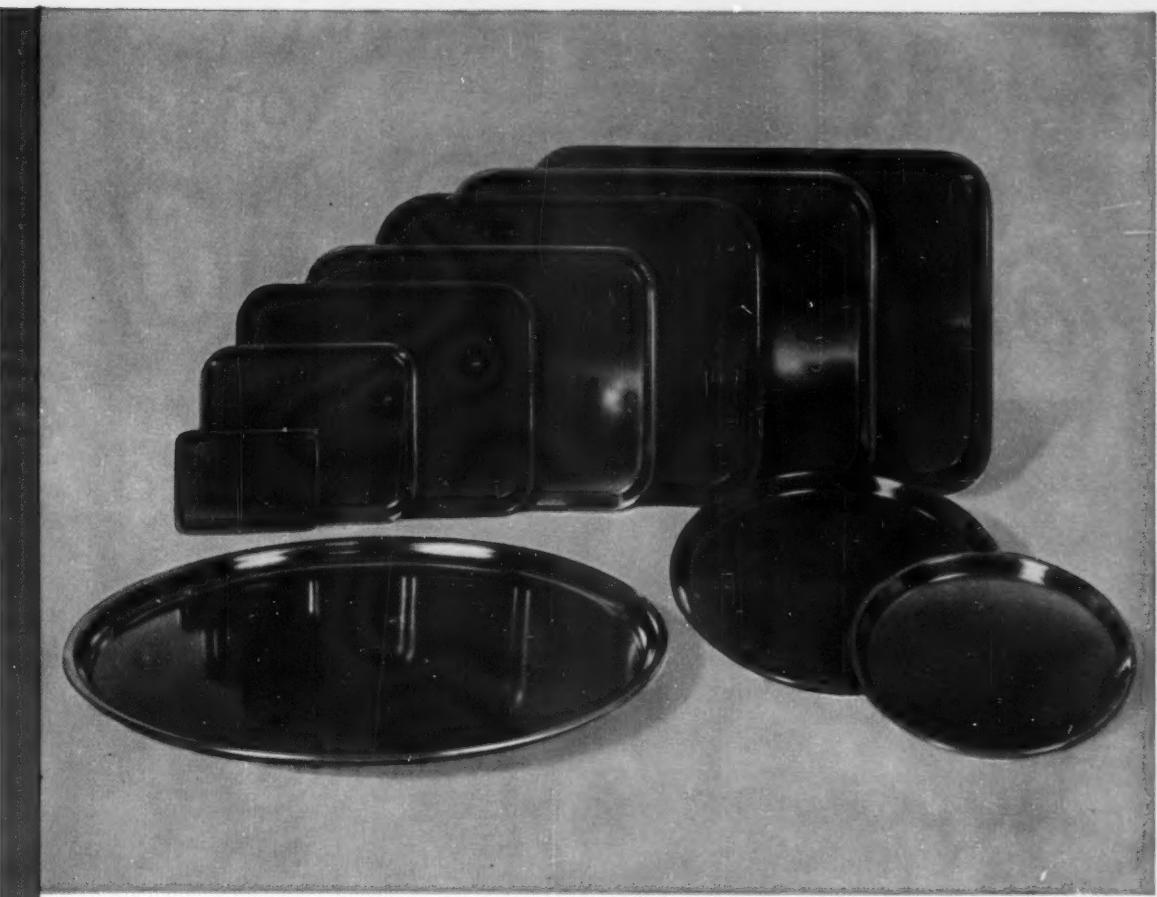
After consultation with an architect and general contractor, it was decided to erect a building constructed of interlocking steel panels on a concrete foundation and with rigid frame support. Work was started on January 2, 1954, and the first meal was served at noon on May 11, just a little over four months later. University officials say this is

Large, well-lit dining hall serves 400 students, can be equipped to accommodate 600.

Mr. McFee is supervisor of product information service at Armco Drainage & Metal Products, Inc., Middletown, Ohio.



Photos by Armco, Inc.



KYS-ITE®
molded plastic
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are the finest quality
ever made

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Schieber Port-A-Fold installation in Hermosa Elementary School, Artesia, New Mexico.
ARCHITECTS: Vorhees, Standhardt & Swatek, A.I.A., Roswell, New Mexico



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- 5 Safety locking devices to prevent accidents.
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- 7 Tight fitting, bright stainless steel edges.
- 8 Tables and benches may be used separately. No connecting bars or obstructions.

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Miami's Steel Hall

(Continued from page 162)

an estimated time saving of about eight months over their usual type of construction.

The building, known as the East Dining Hall, is composed of three 40-foot steel spans. An attractive entrance porch graces the front. Two of the 40-foot spans form the main dining area which is 80 feet wide by 102 feet and 8 inches long. The third span, 40 feet by 82 feet and 8 inches, is the kitchen section. Wall height at the eaves is 14 feet.

Roof insulated; interior unpainted

The dining hall ceiling is vaulted, that is, open clear to the roof line. It is finished with a sprayed-on insulation. Kitchen dividing walls and ceilings are unpainted steel panels.

Interior finish of the dining hall proper is insulating board, unpainted. The rigid frames are painted tan to match the natural color of the wallboard. The building is painted a light gray on the outside with the exception of the entrance porch, painted white.

*With the exception of the range,
all kitchen equipment is made of
easy-to-clean stainless steel.*



Kitchen modernized;
floor convertible

The kitchen is equipped with modern stainless steel cooking and service appliances and utensils. Present capacity of the dining room is 400; yet up to 600 can readily be served by moving in extra tables and chairs.

aterials and equipment is \$173,475.00, with itemized costs as follows:

General contract	\$71,717.00
(Including linoleum, painting and interior finishing)	
Plumbing	19,275.00
Heating	23,200.00
Electrical	10,950.00
Kitchen Equipment	27,338.00
Tables, Chairs, Silver- ware, etc.	14,700.00
Professional fees, in- cidental costs	6,295.00

The architect was H. G. Allan, State Architectural Engineer, State of Ohio.

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THE FRESH-MADE CARTON

1 Grip with thumb and first fingers as pictured

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Mich. for extra Copies of this

F R E E P O S T E R
(16" x 22" Full Color reproduction of above)
with helpful balanced lunch suggestions on reverse side!

INTRODUCING...the Classroom Furniture Samsonite puts light-hearted color to help you turn out



- * **4 BRILLIANT NEW COLORS**...Terra Cotta! Turquoise! Brown! Grey!
- * **NEW COMFORT-CONTOUR DESIGN** heightens student attention!
- * **NEW BEAUTY AND DURABILITY** with Hard Wood or Plastic work surfaces!



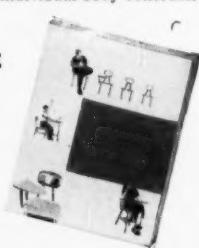
The Mobile Samsonite *Open Front Desk* gives maximum storage space! Forms related unit with matching Pivot-Back chair.

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Russel Wright
only with Samsonite
Classroom Furniture!

New Samsonite *Pivot-Back Chair* has silent, rubber-cushioned glides, kick-proof "spats". Pivot-back swivels silently, adjusts to individual body contours.

NEW CATALOGUE

New Samsonite Classroom Furniture Catalogue. Complete specifications on new Samsonite Classroom Furniture. Fully illustrated in color. Write Shwayder Bros., Dept. F-9, Classroom Furniture Division, Detroit 29, Mich. for a copy and for the name of your nearest distributor.



of Tomorrow...**TODAY!**

and comfort into your classrooms brighter, happier students!

Created by Russel Wright and Samsonite...never before has there been classroom furniture as exciting and practical as this!

4 Paint-Box Colors make classrooms bright and fun to work in! Tested on school officials in 30 states, the colors mix or match harmoniously, blend with every wall color!

Shaped for Tomorrow! The gracefully curved contours are posture-designed to build healthy bodies, make attention less tiring, learning more fun!

Miracle of Mobility! Mix these units, move them room to room, with never a conflict in color or contour.

Mischief-Proof! Aluminum "spats" on legs defy kick and mop marks! Desk-lid hinges and countersunk "bumpers" can't be loosened, even with a screwdriver!

It's Not Expensive! Samsonite actually costs less...because it's strongest, lasts longest!



A new note in schoolroom furniture, Samsonite's *Circular Table* lends an informal, non-institutional look to the classroom!



For all group projects, Samsonite's colorful *Activity Table* with three book boxes. (Also available with six boxes.)



Samsonite's colorful *Lift-Lid Desk* is noiseless, slam-proof, tamper-proof. Fingers can't be caught between lid and book box.



Newness of line, brilliance of color, keynote Samsonite's *Teacher's Desk*. Maximum work and storage space!



290 square inches of writing surface! New Samsonite *Tablet Desk Chair* plays multiple roles in classroom, meeting rooms, lunchroom.



Samsonite *Student Desk* can also serve as table. Several can be pushed together for group projects.



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Plenty of leg room and storage space! The Samsonite *Shelf Desk* brings modern color, graceful lines to the classroom.

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recent publications the school administrator will want to read, to pass along to associates, or "to have heard of"

Staff Personnel In the Public Schools

By Willard S. Elsbree and E. Edmund Reutter, Jr., *Prentice-Hall, Inc., New York, 1954, 438 pp., \$4.65.*

Current practices, conditions and trends relating to professional personnel of public schools are comprehensively covered, and with an objectiveness and balance that means educational statesmanship.

Numerous suggestions on how administrators, supervisors and teachers might improve their effectiveness are offered within a context of solid research and a mature grasp of issues and problems pertaining to instructional personnel. The authors write with tones of authority.

Perhaps the most noteworthy chapter in the volume is the one on academic freedom. It is fresh, fair and thorough, a commendable piece of thinking and writing. Other problems admirably dealt with include recruitment, selection and orientation of teachers; salaries, tenure and retirement; ethics and morale.

Elsbree and Reutter, both of Teachers College, Columbia, note that "teaching has not yet come of age as a profession." More books of this calibre might hasten the process.

Effective Leadership In Human Relations

By Henry Clay Lindgren, *Hermite House, New York, 1954, 287 pp., \$3.50.*

Psychologist Lindgren, of San Francisco State College, observes that the key to good leadership lies in understanding of motivations — the leader's own and those of the group with which he works.

To help leaders of all kinds and levels become as effective as they would like to be, Dr. Lindgren offers a stimulating analysis of the problems inherent in any leader-

subordinate relationship.

He examines the nature and expressions of hostility and anxiety, which always confront leaders in some degree.

He analyzes old and new patterns of leadership and points out basic leader trademarks.

The book demonstrates, *per se*, the author's principles. His leadership ability in the field discussed is evident, yet the book never advises. It leads the reader toward working out his own solutions. A leader's ability to "communicate" is also superbly shown, for the volume gets its message across without sacrificing quality of thought or readability.

Toward an Education

By Margaret Feglesong Ingram, *Comet Press Books, New York, 1954, 447 pp., \$3.50.*

This autobiography of a teacher is aptly named, for Mrs. Ingram's life focus was not so much on educating youth as on becoming, herself, an educated and independent person.

An orphan with what she calls a "root, hog or die" upbringing, she demonstrates the drive, initiative, and restlessness to paint her life canvas with bold, ruthless strokes.

Mrs. Ingram spares herself, and the reader, little. She is frank and she supplies so many details that the book's pace is exceedingly slow.

Her peripatetic schooling and teaching career offer numerous glimpses into the schools and teachers colleges of her days. But more, this is the purely personal story of a hard-bitten individualist.

Christian Faith and Higher Education

By Nels F. S. Ferré, *Harper and Brothers, New York, 1954, 251 pp., \$3.00.*

Even if one does not agree with the

ideas and conclusions of Professor Ferré of Vanderbilt University's School of Religion, his profundity and elegance are unimpeachable.

His style and thesis are best conveyed by direct quotation:

"Only as the nature of Man, history and reality require religious truth should it become part of education. (This) discussion of the nature of religion in general, and of the Christian faith in particular, should show whether education should teach religion, whether it can do without it, or whether, in fact, education itself is by its very nature through and through religious."

He concludes that the university "needs to teach religion, both as a department and in relation to all departments . . . Higher education, in order to climb in the direction of its own summit, needs to become resolutely Christian."

General Education; Explorations in Evaluation

Final Report, Cooperative Study of Evaluation in General Education, American Council on Education; Paul L. Dressel, study director; Lewis B. Mayhew, assistant director; The Council, Washington, D. C., 1954, 302 pp., \$3.50.

Under Francis Bacon's classification of books—as those to be tasted, swallowed or chewed and digested—this volume belongs in the latter category.

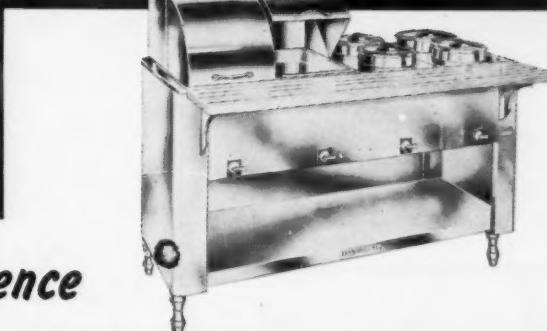
The *Cooperative Study of Evaluation in General Education* began in 1950 with nineteen colleges sending representatives, many of them classroom teachers, to study the effectiveness of various types of general education in achieving commonly accepted goals.

The colleges involved were diverse, including institutions as far apart in miles as Boston University and Western Washington College of Education and as far apart in atmosphere as

First on the list of places to wine and dine in Quincy, Ill., is The Steak Pit, one of five popular rooms in Stipp's Restaurant.

The feeling of mysterious spaciousness is the result of charcoal color walls and ceiling, pierced by pinhole lighting in movable ceiling panels.

Patrons select their own steaks from a tempting, carefully aged selection in a special refrigerated display case and watch them cooked to their own taste over open charcoal broilers.



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"No other food warmer has given us the service we are getting from our Thurmaduke Waterless jobs", says Mrs. Edna Stipp.

"We particularly like the Selective Heat Control because it lets us keep each food at the right temperature; that means we hold the flavor better and there's less drying out and shrinkage. We find it costs quite a bit less to operate, too. All in all, we are only sorry we didn't make the change to Thurmaduke, sooner."

"We put in our first Thurmaduke over 8 years ago and we've yet to spend our first dollar on it in maintenance or repairs."

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THURMADUKE WATERLESS FOOD WARMERS • STANDARD UNIT COUNTERS AND OTHER EQUIPMENT

April, 1955

169

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Harvard and Antioch.

As an example of cooperative endeavor among institutions of higher learning, the study merits attention, but it also had more concrete contributions. The project began with deliberations on the purposes of evaluation, thus necessitating clarification of the objectives of general education. This "prologue" is illuminating and stimulating.

Further, committees developed

valuable tests and instructional materials, collected data on pertinent test gains by students and developed several hypotheses involving the nature of integration of course materials.

The report focuses on need for a positive, dynamic principle to integrate branches of general education. Merits and defects are explored in several common integrating forces, such as religion, professional preparation or citizenship training. Critical thinking as a goal or principle of integration for all courses is advanced and ably championed.

The director and assistant director of the study explain that although they tried to be objective in writing the report, they recognize and accept responsibility for its philosophical bias. Along with the responsibility, they deserve credit, for they have presented a coherent, interesting report on an intricate study which was further complicated by a shift in emphasis midway in the project.

New Challenges to Our Schools

Edited by Sturges F. Cary, *The H. W. Wilson Company, New York, 1953, 214 pp.*

This compact and kaleidoscopic source book was delayed in reaching THE SCHOOL EXECUTIVE and further delayed in reaching these columns, but it deserves attention, albeit late.

Mr. Sturges, associate editor of *World Week*, did an excellent job of assembling fragments of original articles, speeches and court rulings which show patterns of educational practice across the country and patterns of criticism leveled at public schools in recent years.

Although permanently out of print, this book is available through many public libraries.

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Working closely with instructors and administrators, Hamilton engineers have evolved the laboratory equipment schools asked for. Versatile, flexible units for against-the-wall floor plans — leaving classroom centers free for many kinds of instruction, demonstration, and home room use. They're colorfully modern units too: available in six beautiful finishes, to give the science room a remarkable new distinction and attractiveness — a climate conducive to better work by both instructor and student.

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OTHER PUBLICATIONS AND PAMPHLETS

The editors have selected the publications listed below as worthy of the administrator's attention. Those of particular value appear in heavy type.

Instructional Program

Spelling Instructions describes research and makes specific "how-to" suggestions for teaching. Gives ideas for integrating spelling with other curriculum areas, approaches to direct instruction, and presents weekly classroom programs. Based on research in Austin's Casis School. University of Texas Press, Austin 12. Price: \$2.00.

National Council for the Social Studies, program for 34th annual



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For rugged, dependable service look to the Stahl line of Commercial Aluminum Cookware. You can spend more—but you can't buy better! It's America's greatest cookware value! The low prices you see here are the same everyday low prices you'll find at your restaurant equipment dealer. Send today for your complete catalog of Stahl Commercial Aluminum Cookware.

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STANDARD WEIGHT

NO.	SIZE	PRICE
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With steel reinforcing straps as shown.

NO.	SIZE	PRICE
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ALUMILITE FINISH

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414 AH	14 Qt.	\$ 6.30
425 AH	25 "	8.80
440 AH	40 "	15.90
460 AH	60 "	22.50

Sturdy and long-wearing. Strong reinforced handles. Used for general food preparation and processing.

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NO.	SIZE	PRICE
502 A	2 Qt.	\$ 1.85
504 A	4 "	2.75
507 A	7 "	4.60
516 A	16 "	8.20
522 A	22 "	10.25
548 A	48 "	21.75

Smooth, hard Alumilite finish. Resistant to acids and stains. Excellent for mixing salads, etc. Also available with handles.

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Double strength at critical points. Combines long-wearing and easy handling qualities. Extra weight bottom insures longer wear.

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212	12 "	7.00
216	16 "	8.40
220	20 "	9.55
224	24 "	10.35

and other sizes up to 80 Quarts.



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meeting, November 25-27, 1954, at Indianapolis, Ind. NEA¹.

Teaching Rapid and Slow Learners in High Schools describes the "provisions used in large high schools to adapt teaching methods in different subjects for pupils who are not average." Bulletin 1954, No. 5. Office of Education². Price: 35¢.

Gains for Handicapped Children covers attitudes, gains and goals, both medical and societal, on progress in the field. Public Affairs Pamphlets³. Price: 25¢.

Graphic Shop is a teacher's work manual based on the course of study in industrial arts, Grades 7, 8 and 9, in New York City Public Schools. Board of Education, 110 Livingston St., Brooklyn 1.

Home Economics, Clothing and Household Fabrics, covers syllabus for grades 7-9. Curriculum Bulletin, No. 9, 1952-53 series, Board of Education, 110 Livingston St., Brooklyn 1.

Focus on Choices Challenging Youth is a discussion kit for use among adolescent youth. Discusses such problems as juvenile delinquency, racial discrimination, extra-curricular activities, etc. National Conference of Christians and Jews, 381 Fourth Ave., New York 16. Price: 25¢.

Free and Inexpensive Materials on World Affairs, by Leonard S. Kenworthy, is a bibliography in various phases. Public Affairs Press, 2153 Florida Ave., Washington 8, D. C. Price: \$1.25.

Handwriting Today, a guide for the classroom teacher, is 21st in a series dealing with problems in the development of better schools. New England School Development Council, Spaulding House, 20 Oxford St., Cambridge 38, Mass. Price: Council members, 50¢; non-members, \$1.00.

Teaching Handwriting, No. 4, "What Research Says to the Teacher" series. NEA¹. Price: 25¢.

Personality Adjustment of Individual Children, No. 5 in the *What Research Says to the Teacher* series, NEA Department of Classroom Teachers, and American Educational Research Association. NEA¹. Price: 25¢.

Cabeza de Vaca's Great Journey tells of the Spanish explorer's long journey, most of it by foot, along the shores of the Gulf of Mexico in the early sixteenth century. One of the special series for young readers. Pan American Union, Washington. Price: 10¢.

(Continued on page 174)



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Bulletin No. 153 gives complete description and specification of the VACUSLOT system, including the new application of tubing which greatly reduces installation costs.



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Bulletin
153

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¹Pamphlets published by National Education Association departments may be obtained by writing to 1201 Sixteenth St., N. W., Washington 6, D. C.

²Office of Education publications are available through the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C.

³Public Affairs Pamphlets are available through 22 E. 38 St., New York 16.

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Woods Used—Solid 4-quarter Birch tops. Also available with the famous Fibresin plastic top.

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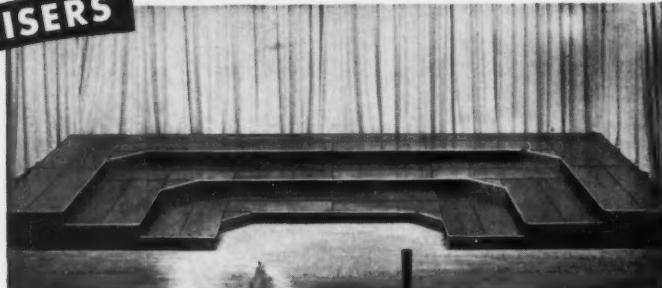
We believe that there is no other desk on the American market which offers your intermediate-grade students more privacy or comfort—plus such large working areas, wide classroom utility and fine workmanship. Inspect it personally—write or wire your American Desk dealer for a demonstration before you specify classroom furniture.



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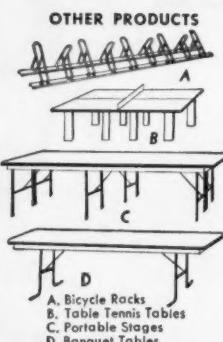
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Honduras, one of the illustrated American Nation series, describes people, history, constitution and government, principal cities, economy, labor and social welfare, public health, transportation and culture. Other booklets in this series cover seventeen other Latin American nations. Pan American Union, Washington. 10¢.

Approaches to an Understanding of World Affairs, 1954 Yearbook, Department of Social Studies, stresses importance of seeking to understand other nations and knowing how cultural, economic, political and geographical factors influence national mood and world outlook. NEA.¹ Price: \$3.50 paper bound, \$4, cloth bound.

A Bibliography of Books for Children is designed for teachers and parents "to help enhance the reading of their children and to suggest to them literature to share with children." Lists only books retailing for over \$1.25. Association for Childhood Education International, 1200 Fifteenth St., N.W., Washington 5. Price: \$1.25.

1955 Department Yearbook, Conference Proceedings. Contains proceedings of the National Conference on Rural Education, October 4-6, 1954, NEA.¹ Price: paper bound \$3; cloth bound, \$3.50.

School Plant

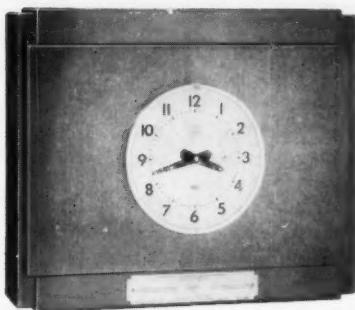
School Building Needs, Easthampton, Massachusetts is the report by a local school survey committee of trends in enrollments, existing school plants and present and future needs. Engelhardt, Engelhardt and Leggett, 551 Fifth Ave., New York 17.

Planning Delaware Schools covers the state's function in building programs, responsibilities of administrator and community, functional planning, facilities, mechanical and service factors and

¹Pamphlets published by National Education Association departments may be obtained by writing to 1201 Sixteenth St., N. W., Washington 6, D. C.

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FARAMATIC System

Think what that means! All components of Far-a-matic electric clock systems are designed, engineered and manufactured by Faraday . . . pace-setters of the industry.

Widely known and used because of their accuracy and simplicity of program control, Far-a-matic clock systems are designed and adapted to meet any requirement.

Choose a Far-a-matic clock system . . . Over 75 years of specialized manufacturing experience assures longer service—less maintenance. Write for illustrated folder today!



Sparti Faraday Inc.
ADRIAN, MICHIGAN

SPERTI FARADAY OF CANADA, LTD., MONTREAL, QUEBEC

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economies. Bulletin No. 214-54, Department of Public Instruction, State of Delaware, Dover.

Planning Tomorrow's Secondary Schools is intended as a guide on the subject. Emphasis is on relationship between educational program and the physical plant. School Planning Laboratory, School of Education, Stanford University, Calif. Price: \$4.00.

School and Community

School-Community Planning is a report of a workshop on this subject sponsored by Delaware School Study Council, University of Delaware, Newark, Del.

3,500 Citizens Looked at our Schools describes the work and findings of the Springfield, Ill., Citizens Survey Committee study of local public schools. Citizens volunteered time and effort to gathering and tabulating information, answers to questionnaires and in evaluating school buildings. Consultants to the committee were from the University of Illinois. Springfield Public Schools, 301 W. Adams St., Springfield, Ill.

Suffolk Schools and Citizenship, annual report of this Virginia community's school board, is an unusually sensitive presentation of the attempts of an educational system to perform its many functions. Board of Education, Suffolk, Va.

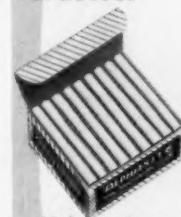
Parents' Kindergarten Primer is designed to be read to Highland Park, Mich., children by their parents before beginning the great school experience. *Beginning School* is a handbook for parents to acquaint them with how they can prepare their children and themselves. *The Home and School Work Together* describes programs of local PTA, Adult Education Division and school personnel. Max S. Smith, superintendent of schools, Highland Park, Mich.



You buy one . . . but
in EXTRA WEAR you
get one more.

We say "BUILT", because molded, spring wool felt sections are bound to each other and to the eraser back by 10 separate sewings . . . sturdy construction that withstands energetic handling for years. Firmness to clean thoroughly . . . permeability to pick up and hold the erased chalk. The outstanding chalkboard eraser today.

...and WEBER COSTELLO
CHALK — work mate of
Costello Double - Sewed®
Erasers.



Alphasite Polychromatic Chalk

The fine quality, dustless chalk in golden ivory color which reduces eyestrain through restful contrast with the chalkboard. Ideal for modern green chalkboards. In regular and triple-size sticks.

Omega Chalkboard Chalk In Color

Here's color for your chalkboard work. Use it with confidence on green or black boards. Writes smoothly. Erases easily and completely. Eight distinctive colors.



Send for Catalog GE-54

WEBER COSTELLO COMPANY

CHICAGO HEIGHTS, ILL.
Manufacturers of: CHALKBOARD,
CHALK, ERASERS, ART MATERIALS,
MAPS, GLOBES

SMALL-AREA BUILDINGS...

*Save $\frac{2}{3}$ of Every Hour
of Scrubbing Time*

WITH A

COMBINATION SCRUBBER-VAC!



Today, even buildings with but 2,000 to 15,000 sq. ft. of floor space can reap the labor-saving, cost-reducing benefits of combination-machine-scrubbing. Here's a *Combination Scrubber-Vac, Model 418P* at left, that's specially designed for such buildings. This Scrubber-Vac, which has an 18-inch brush ring, cleans floors in approximately one-third the time required with a conventional 18-inch machine and separate vac unit.

Model 418P applies the cleanser, scrubs, and picks up (damp-dries the floor) — all in one operation! Maintenance men like the convenience of working with this single unit...the thoroughness with which it cleans...and the features that make the machine simple to operate. It's *self-propelled*, and has a *positive clutch*. There are no switches to set for *fast* or *slow*—slight pressure of the hand on clutch lever adjusts speed to desired rate. The powerful vac performs efficiently and quietly. (Powder dispenser is optional.) Compactly built, the *418P* also serves advantageously in larger buildings for the care of floors in narrow aisles and congested areas.

Finnell makes *Scrubber-Vac Machines* for small, vast, and intermediate operations, and in *self-powered* as well as *electric* models. From this complete line, you can choose the size and model that's exactly right for your job (no need to *over-buy* or *under-buy*). It's also good to know that you can lease or purchase a *Scrubber-Vac*, and that there's a *Finnell man* nearby to help train your maintenance operators in the proper use of the machine and to make periodic check-ups. For demonstration, consultation, or literature, phone or write nearest *Finnell Branch* or *Finnell System, Inc.*, 3104 East Street, Elkhart, Indiana. Branch Offices in all principal cities of the United States and Canada.

FINNELL SYSTEM, INC.

Originators of Power Scrubbing and Polishing Machines



BRANCHES
IN ALL
PRINCIPAL
CITIES

See the Finnell Exhibit • AASA CONVENTION • Cleveland • April 2-6 • Space D-46

New Product / Reviews

School Bus SE-600 Has Many New Safety Features



The new Safeguard School Bus has a number of new safety features built in for the protection of the students. The bus features: extra wide entrance door with low windows so driver can see the smaller children; Split-Sash windows to keep the children's arms and heads inside the bus; lighted step-well with stanchions and grab rails to safeguard the entrance; inside-outside operation on the new Ward emergency door; flush cowl, giving the driver unlimited visibility.

Construction extras include: one-piece, heavy gauge side rub rails riveted directly to body frame giving greater horizontal strength; extra heavy Ward floor, roll-formed of 16 gauge steel.

WARD BODY WORKS, INC., 4201 S. Congress, Austin, Texas.

Insulation Material SE-601 With Ceramic Surface

Duraface Foamglas is a new cellular glass insulating material which combines both insulation and ceramic finish in a single unit. It provides a durable, impact-resisting surface along with high insulating and moisture-proof qualities.

With the new material, a wall completely insulated and surface-finished can be erected in one operation. No finish coating is required to protect the insulation. Unsupported walls can be built of the blocks because of the rigidity and high compressive strength.

PITTSBURGH CORNING CORP., Pittsburgh, Pa.

School Furniture Line SE-602 Features Wood with Chrome Frames



The Heywood-Wakefield Co. has just introduced a new version of tubular furniture to be known as the Trim Line. All types of classroom desks, chairs, tables, tablet arms and auxiliary pieces are available.

The new designs feature chrome frames, multi-colored book boxes and solid wood seats and tops in natural finish.

THE HEYWOOD-WAKEFIELD CO., Menominee, Mich.

Chalkboard SE-603 Made of New Material

Benjamin Porcenell Chalkboards

are easier to write on, easier to erase, and simpler to install. The new material is similar to porcelain enamel but, due to a newly developed process, application can be made to lighter weight steels at lower temperatures, thus reducing the problem of chipping as well as lowering production costs.

Excessive use of water will not damage the board.

BENJAMIN ELECTRIC MFG. CO., PORCENELL CHALKBOARD DIV., Des Plaines, Ill.

Portable Prefabricated Stage SE-604

Of All-Steel Construction



The Form-A-Stage, portable prefabricated unit of all-steel construction, illustrated above, is quickly and easily erected with only one tool, a wrench.

All parts of the Form-A-Stage are cut to exact size and literally fall into place smoothly and speedily.

The portable unit is available in 5' x 10' or 10' x 10' sections . . . 42" high. Put as many together to form as large an area, or shape as you wish.

J. E. BURKE CO., New Brunswick, N. J.

(Continued on page 178)

Suspension File SE-605

Heavy Gauge Steel

The 2300 line file affords full 23" depth. It is fabricated in heavy gauge furniture steel with an independent frame work of six vertical channels welded to cabinet sides with Wesco's inter-lock weld.

Each drawer operates on six steel balls and four absolute friction free rollers. Included are side locking type follower blocks; full pan bottom on case; super reinforcing torque bars; individualized chrome hardware; plated suspension slides; and

a rebound eliminator on all drawers.
WESTERN MFG. CO., AURORA, ILL.

SE-606

Room-Divider Curtain

Made of Duratex

Duratex Utility Fabrics have been recommended for room-dividing curtains for use in gyms and temporary and permanent room-dividing partitions.

The Duratex fabric is base woven of Fiberglas or Nylon yarn coated with synthetic plastic resins—that



will not harden, crack or peel—for complete and permanent fire resistance.

Its other qualities include light weight; resistance to water, oil, grease; high breaking and tearing strength. Although it is light in weight for easy operation, it is sturdy enough to withstand scuffing and wear.

The standard color is rich Forest Green. Duratex standard fabrics include three weights each in Fiberglas and Nylon.

DURACOTE CORP., Ravenna, Ohio.

SE-410



8700 HOT SCHOOL LUNCHES DAILY, FOR 29 SCHOOLS, FROM ONE CENTRAL KITCHEN, WITH PORTABLE AerVoids!

Present-day costs of kitchen equipment and labor for every school in a school system quickly play havoc with school lunch budgets.

The answer is "More centralized food production," saving the expense of duplicating food production setups in a number of locations.



AERVOID vacuum insulated HOT FOOD, SOUP, AND LIQUID CARRIERS

Centralized production and distribution of hot foods and liquids is today "established practice," made so by AerVoid vacuum insulated hot food and liquid carriers which provide a practical and economical means for serving a number of different schools with hot foods from one centralized location. You can "stretch your budget dollars" with AerVoids. Our food consultants will help you with suggestions without cost.

Circular SE-55 tells exactly how one city's schools saves money with AerVoids. Write for your copy today. No obligation.

VACUUM CAN COMPANY
19 South Hoyne Avenue, Chicago 12, Ill.

SE-607

Hat and Coat Rack

Of Heavy-Duty Aluminum



The Safway floor model hat and coat rack is of bolted construction throughout. A special buffing and polishing process insures a polished surface finish with permanent high-lustre qualities.

Floor models are available in 3, 4, and 5 foot widths. Also available are wall model hat and coat racks, made in 2, 3, 4, 6, 8 and 10 foot widths. Both types may be ordered equipped with either single or double hat and package shelves.

SAFWAY METAL PRODUCTS CO., 111 Webb Ave., Detroit, Mich.



AZOGRAPH

the new 2 in 1 duplicator

No. 1—the patented AZOGRAPH duplicating process. It is the fastest and lowest cost process with complete cleanliness.

No. 2—the AZOGRAPH duplicator can be used to produce spirit (aniline dye) copies.

For more information see your A. B. Dick Company distributor. You'll find him listed in the classified section of your phone book. Or, write A. B. Dick Company, 5700 Touhy Avenue, Chicago 31, Illinois



A·B·DICK
THE FIRST NAME IN DUPLICATING

A. B. DICK® and AZOGRAPH are registered trademarks of A. B. Dick Company

Bicycle Rack

SE-608

Of Welded Steel Construction

The Buckley bicycle rack is available in various length sections. A ten foot section containing 33 parking pockets will accommodate approximately 15 bicycles (depending on size of handlebars).

Used primarily to avoid dangerous accidents in schoolyards caused by carelessly parked bicycles, this rack is made of welded steel construction and is shipped completely assembled.

BUCKLEY IRON WORKS, 21 Christopher St., Boston 22, Mass.

Portable Stage

SE-609

With New Locking System



The new portable stage, illustrated above, can be set up, moved, or

SE-412

"Just a bug he picked up somewhere* . . ."



*Health authorities say only one dip in ten washed by hand is "safe".

KEEP THEM HEALTHY WITH COLT AUTOSAN DISHWASHERS!

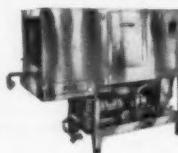
WHEN A YOUNGSTER'S marks fall off because he's listless — when he's absent because he's under the weather — watch out for "unsafe" dishes!

Make sure he's protected, by installing Colt Autosan Dishwashing equipment. Every step in the Colt dishwashing process, from contamination-free automatic pre-flush to 180° sanitizing rinse, contributes to cleaner, sanitary dishes.

Durable Colt-engineered Autosans are economical to operate. Many have been in daily use for over 25 years! Write for complete information. **COLT'S MANUFACTURING COMPANY, Dept. E-4, Hartford 15, Conn.**

COLT AUTOSAN DISHWASHER MODEL RC-30 (2400 dishes per hour)

New design based on research in scores of kitchens. New wash chamber door gives easy access to interior, simplifies tube and scrap tray removal and cleaning. New wash spray distribution concentrates spray, increases washing efficiency, improves splash control. Requires only limited floor space. Also available without pre-flush.



COLT AUTOSAN

DISHWASHING, SANITIZING, DRYING MACHINES, and VEGETABLE PEELERS

Made by the makers of famous Colt handguns, industrial packaging equipment, and molded plastic products

stored in a matter of minutes, yet is strong enough to support gym activities.

Manufactured in 4' x 6' and 4' x 8' sections, Wenger stages provide easy portability and flexibility. They are suitable for use as a dais in an auditorium or gym.

Sturdy construction includes steel channel frames fastened underneath each section to provide solid support with a large steel channel extending the length of the section in the middle to provide additional reinforcement.

A new locking system holds the individual sections firmly together and the Wenger one-piece sure-locking friction brace guarantees complete rigidity when the stage is in use. Any size stage may be provided in heights of 12", 18", 24" or higher to meet any portable stage requirements.

WENGER MUSIC EQUIPMENT CO., 46 Wenger Bldg., Owatonna, Minn.

1955 Oneida Buses SE-610 Added Safety Features



Additional safety features have been included in the new 1955 Oneida Buses. The windshield area has been increased and the design simplified to boost driver vision. There is a 30 per cent increase in glass area in entrance doors which offers the driver better view both in operation and at bus stops. Additional frame members for further strength provide more engineered-in safety than before.

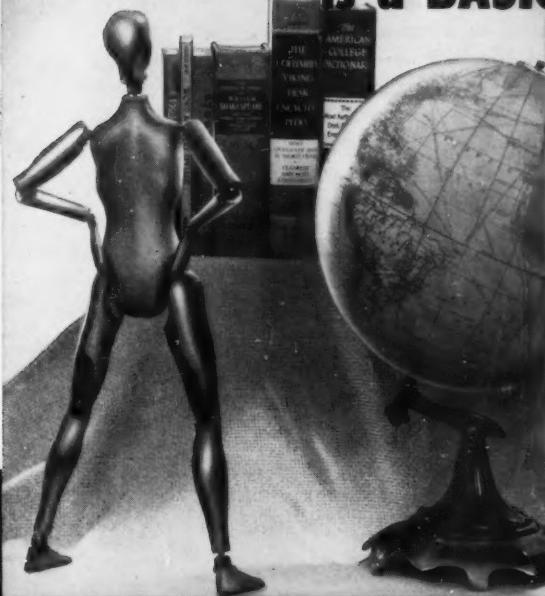
Operating efficiency of the built-in defroster has been improved to insure quicker defrosting and de-icing. Other features include new interior trims and colors; full 72-inch inside headroom; 5-inch rub rails; fingertip control panels; 8-inch rear bumper; genuine linoleum floor covering and many others.

ONEIDA PRODUCTS CORP., 405 Lexington Ave., New York, N. Y.

"LIGHTING

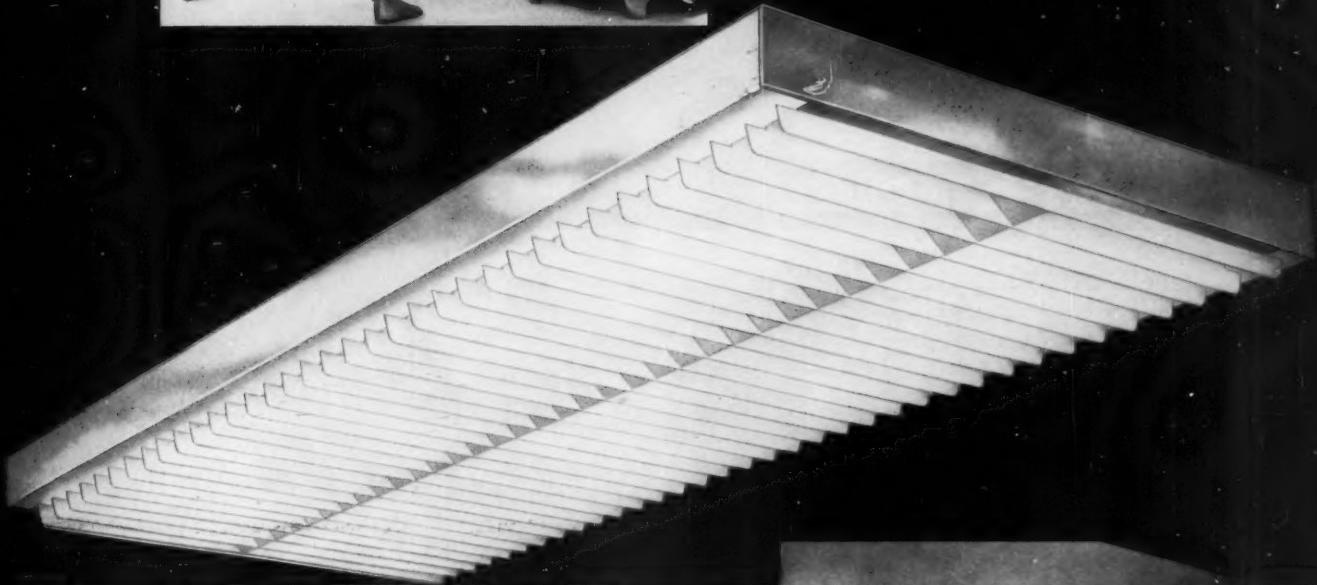
by Smithcraft"

is a BASIC OF MODERN EDUCATION



As basic to modern education as a standard dictionary or encyclopedia is contemporary school lighting. Today's teaching techniques depend heavily on learning by seeing and demands on young eyes are very great. School lighting is an intricate science involving ideal light distribution, proper shielding, brightness and glare factors plus the mechanics of delivering quality lighting where it is needed.

Shown here are two recent Smithcraft contemporary lighting fixture designs for specific applications. In common with all Smithcraft school units, these two Smithcraft contemporary fixture designs represent the finest quality lighting money can buy in accordance with today's most advanced illuminating practice.



Smithcraft SHERATON Ideal for surface mounting on many of today's 9-foot ceilings in modern schoolrooms because of its extreme shallowness. A wafer-thin (only 3 1/4" deep) smoothly-styled louvered fluorescent unit with translucent plastic sides. Available in 4-foot or 8-foot lengths for two or four Rapid-Start Bi-Pin or Slimline Lamps.

Smithcraft CHALKBOARDER For the supplementary lighting of vertical surfaces—chalkboards, exhibits, art galleries, bulletin boards, etc. For Rapid-Start Bi-Pin and for Slimline Lamps in 4-foot, 8-foot and 16-foot units.

Write today for folders on the Smithcraft Sheraton and Chalkboarder. Also ask for the Smithcraft School Lighting folder explaining the six basic requirements of good school lighting. There's a Smithcraft unit for every school lighting requirement.

"BUY LIGHTING" — NOT FIXTURES — INVEST IN AMERICA'S FINEST FLUORESCENT LIGHTING



Smithcraft

LIGHTING DIVISION

CHELSEA 30, MASSACHUSETTS

AMERICA'S FINEST FLUORESCENT LIGHTING

Liquid Plastic

Bonds New Floors to Old



Inlaycrete Bond is a new brush-applied plastic that permanently

SE-611

bonds concrete to concrete, concrete to iron, steel, brick, stone, glass or any firm surface.

The new product eliminates laborious roughing of old floors with hammer or chisel. Brush it on—and the surface is ready for retopping in 30 minutes.

Used for laying new floor topping to old floors, patching holes in concrete, resurfacing worn steps, driveways or curbing and building restoration, Inlaycrete Bond forms an

inseparable bond for years of satisfactory performance with minimum labor cost.

THE GARLAND CO., Cleveland 5, Ohio.

SE-612

Drawer-Cupboard Unit

Only Two Feet Wide

A two-foot laboratory unit which fits easily into the leftover space at the end of bench assemblies or any other tight installation is now being featured.

The drawer-cupboard unit is 36 inches high thus forming a continuous working surface with the other standing height units in the laboratory.

It is made of heavy-gauge steel; bonderized to make the finish adhere and for rust-proofing purposes.

FISHER SCIENTIFIC CO., 717 Forbes St., Pittsburgh 19, Pa.

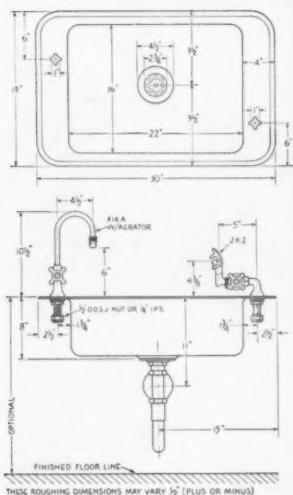
SE-414



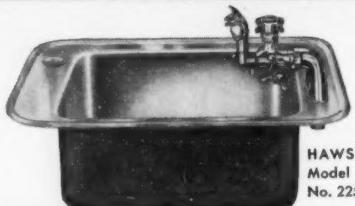
HAWS
Model No. 2350

Now! THE POPULAR **HAWS** DECK-TYPE DRINKING FOUNTAINS

in STAINLESS STEEL



HAWS Series 2300, Model No. 2350
(Pat. applied for)

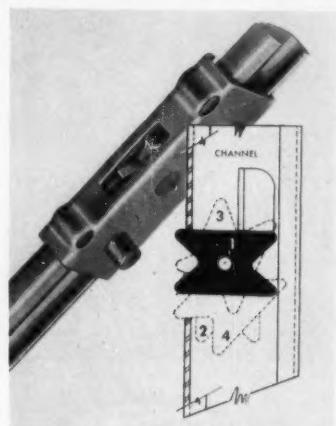


HAWS
Model
No. 2255

Now! The HAWS stainless steel Series 2200 and 2300 with all the features that have made the white enamel cast iron HAWS Series 2000 so popular for school classrooms. Raised and sloped mounting rim that keeps water off deck or table top... VANDAL PROOF socket flanges and fittings... chrome plated sink strainer with non-removable grid... and availability with any combination of HAWS faucets and fixtures. For Acid-Resisting Enamel finish, specify HAWS Series 2000.

Write today for illustrated Detail Sheets
on 2000, 2200 and 2300 Series!

HAWS DRINKING FAUCET CO.
1443 FOURTH STREET (Since 1909) BERKELEY 10, CALIFORNIA



Kramer Wood Sash Operating Hardware is totally free from springs which caused earlier types to become mechanically faulty under heavy daily use. Other features include a four-position tumbler for automatically engaging or disengaging the lower sash with the upper sections and an automatic vandal-proof locking mechanism.

KRAMER MFG. CO., 2833 Third St., San Francisco, Calif.

THE SCHOOL EXECUTIVE

Adaptable, Economical



The ORIGINAL Tubular
Steel School Furniture

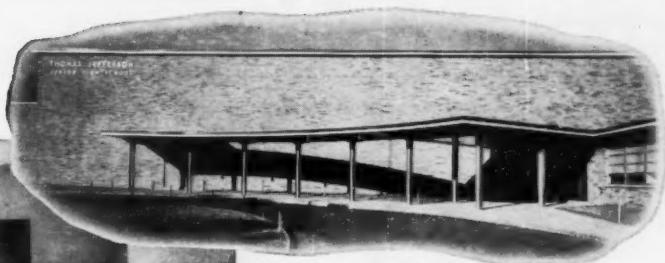
Extra Quality*

Heywood Furniture Throughout New, Low Cost

THOMAS JEFFERSON JUNIOR HIGH



AUDITORIUM—with 785 seating capacity has Heywood's comfortable TC 705 chairs



SCIENCE LABORATORY—is equipped with Heywood's S 962 tables and all-purpose chairs



CLASSROOM—here again versatile S 962 tables and all-purpose chairs are used

When Dr. E. C. Grover, Superintendent of Schools, Fairlawn, New Jersey, planned the new Thomas Jefferson Junior High School, his limited budget had to be stretched to meet the needs of a rapidly growing school enrollment. Heywood-Wakefield Tubular Steel School Furniture's versatility, strength and exceptionally low maintenance cost met the exacting requirements . . . and was installed throughout this school and the new, modern Lyncrest Elementary School in Fairlawn, as well. Arthur Rigolo was the architect for both of these fine new schools, and installation of Heywood-Wakefield School Furniture was carried out with the assistance of M. J. Franz, representative of Heywood-Wakefield Company, One Park Ave., New York.

*Some of the Extra Quality features you get in Heywood-Wakefield Tubular Steel School Furniture: all joints of welded steel; super-silent glide chairs; scientifically designed saddle seats; and patented lids that hold open and permit quiet closing. For further information on the EXTRA QUALITY features of Heywood School Furniture, write for free catalogue. Heywood-Wakefield, School Furniture Division, Menominee, Mich.; Gardner, Mass.

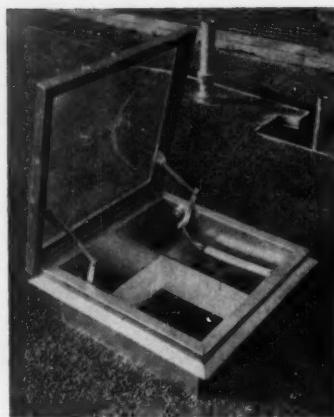
SE-614

Plastic Skylights

Many Dual-Purpose Units Available

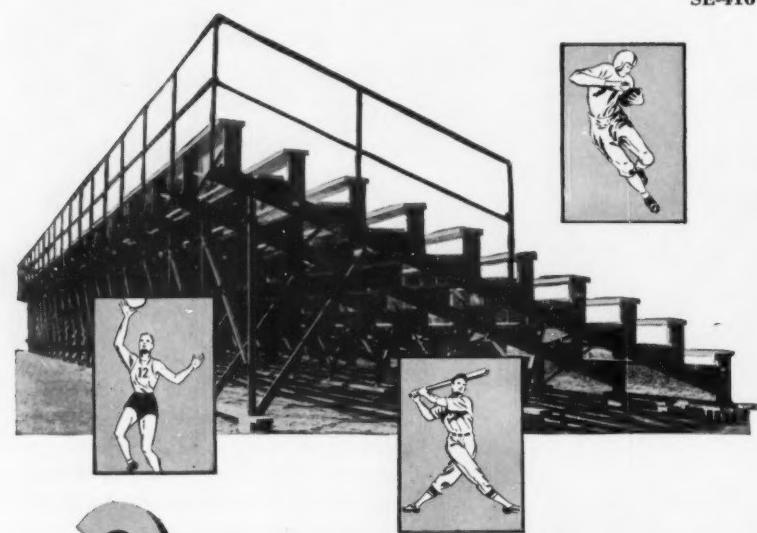
Wasco's new line of plastic dome skylights provide Daylighting Plus—ventilation, automatic fire-venting, added insulation or access to the roof. These dual-purpose products are easily incorporated into a top-lighted school. They arrive at the job factory-assembled, all ready to drop over a simple roof opening.

The Pyrodome, shown right, is designed for Daylighting Plus Fire-venting. It is equipped with a fusible link which snaps under excessive



PYRODOME

heat, thus activating levers which



3 SICO BLEACHER INSTALLATIONS All at the price of one!

You buy a single Sico bleacher installation and use it indoors for basketball and outdoors for baseball, football and other spectator events.

Sico portable steel bleachers save money because they're easily and quickly set up and dismantled; the heaviest part weighs only 90 pounds. Sico's Speedlock contributes to Sico's portability.

Safety of Sico Portable Bleachers has been proven in structural loading and wind tests; approvals have been granted Sico bleachers by commercial testing laboratories and other state sponsored safety bureaus. Steel used in Sico bleachers is factory tested and inspected before use. Seat and footboards are 2" thick and 10" wide.

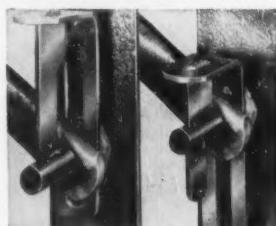
SICO SPEEDLOCK

Sico's exclusive, patented Speedlock hastens assembly and disassembly time by eliminating time-wasting nuts and bolts that often jam or rust. Simple, safe Speedlock drops into place to provide a positive locking device that's rust-proof and practically indestructible.

For specifications and complete details write



SICO
GRANDSTANDS,
INC.



3569 WOODDALE AVENUE,
MINNEAPOLIS 16, MINNESOTA

raise the dome and permit heat, smoke and fumes to escape.



CEILING DOME

The Wascolite Ceiling Dome shown above is used with the basic Skydome for added insulation and maximum daylight diffusion. Installed at bottom of well, it makes an attractive flush ceiling and conceals electric light fixtures installed in well.



AIRDOOME

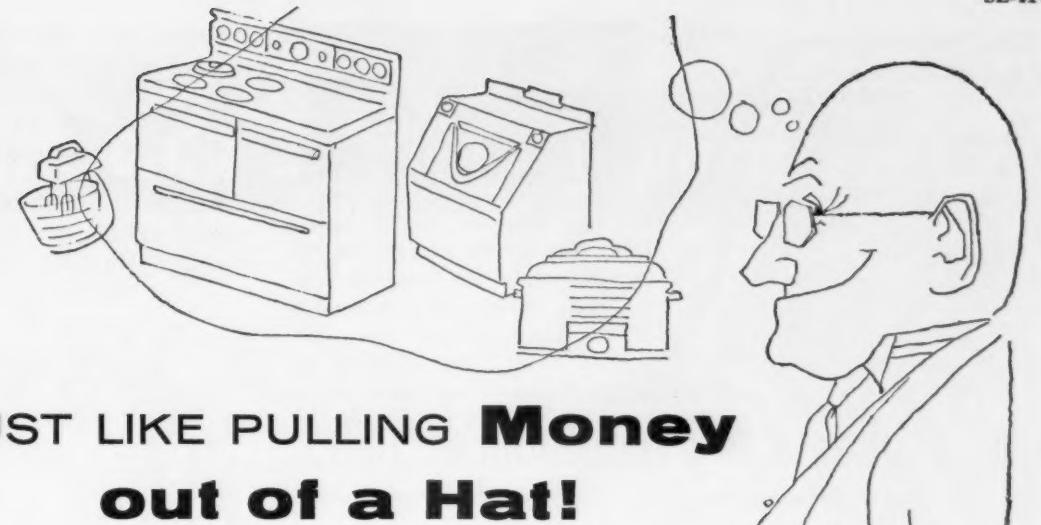
For Daylighting Plus Ventilation, the Ventdome has a motor-driven built-in air exhaust. The Wascolite Airdome, a window to the sky, can be opened and shut manually to admit natural ventilation.



HATCHWAY

The final item in the line is the Wascolite Hatchway which provides daylight as well as easy access to the roof.

WASCO FLASHING Co., 87 Fawcett St., Cambridge, Mass.



JUST LIKE PULLING Money out of a Hat!

School executives find there's no depreciation of equipment dollars under the Westinghouse School Plan. HERE'S HOW IT WORKS:

1. For about 1/2 retail cost a new Westinghouse appliance is installed in the school home economics laboratory. Schools may buy a single appliance . . . or as many as they need.

2. At no additional cost, every year thereafter, Westinghouse appliances are replaced with comparable new models.

3. Maintenance costs are negligible because each replacement appliance is new and is covered by a new appliance warranty.

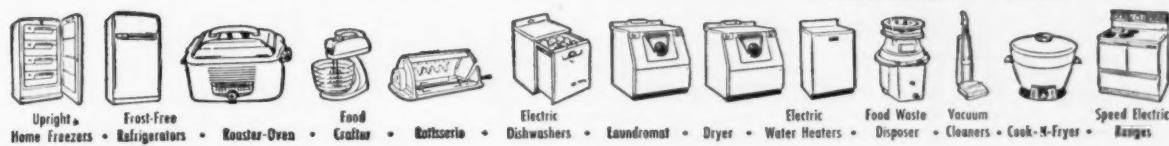
4. Schools can invest as little as \$300 a year for new appliances and at the end of a surprisingly few years, they will have a completely re-equipped home ec laboratory. Moreover, every appliance in it will be brand new . . . worth its full original value. Thus steady progress can be made on small budgets. It's just like pulling money out of a hat!

5. Helpful teaching aids are supplied without charge.

For full details . . . Send for free folder on the Westinghouse School Plan. Order copies for yourself and others concerned with purchasing of teaching equipment. Offer limited to continental U. S. A. Write to:

**Westinghouse Electric Corporation • Electric Appliance Division
Consumer Service Department SE-455 • Mansfield, Ohio**

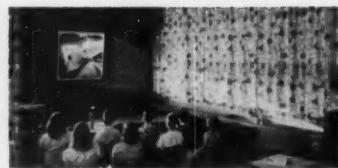
YOU CAN BE SURE..IF IT'S Westinghouse



Upright Home Freezers • Frost-Free Refrigerators • Roaster-Oven • Food Canner • Rotisserie • Electric Dishwashers • Laundrymat • Dryer • Water Heaters • Electric Food Waste Disposer • Vacuum Cleaners • Cook-N-Fryer • Speed Electric Ranges

Light Stop Accessory SE-615
Makes Audio-Visual Aids More Effective

Herman Nelson has developed a 5" wide strip of enameled steel called Light/Stop which runs the length of the unit ventilator and companion shelving and cabinets in a modern classroom. The strip retains the blackout curtains and blocks any light infiltration at the bottom. The Light/Stop accessory is fully effective.



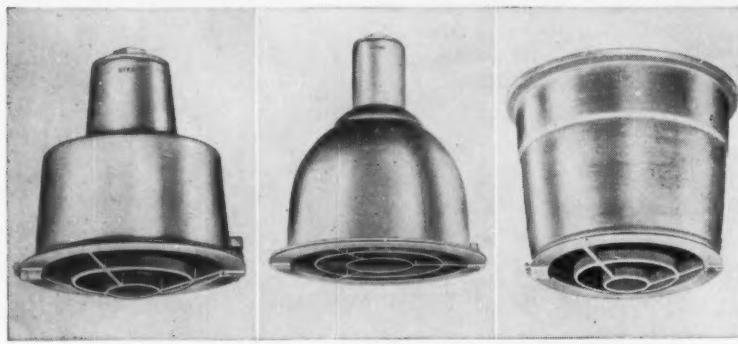
tive only with the Herman Nelson Draft/Stop system, because the latter draws room air downward into an intake grille running the length of the classroom windows. This downward air flow, utilizing the

natural action of air cooled by temperatures outside of the window, prevents flapping curtains. It thus helps minimize the eyestrain of sudden daylight flashes and eliminates an important source of distraction.

HERMAN NELSON UNIT VENTILATORS, AMERICAN AIR FILTER CO., INC., LOUISVILLE 8, KY.

NEW ECONOMICAL GYMNASIUM FIXTURES

Have No Reflectors—Give Better Illumination



FLUSH MOUNTING

PENDANT MOUNTING

SURFACE MOUNTING

Reflector Flood Lamps Provide Maximum Efficiency for the Life of the Lamp

These new Steber fixtures use R-40 or R-52 lamps which contain their own reflectors. Light is maintained at a high level because there is no bulky, costly reflector to accumulate dirt and require periodic cleaning. When lamps are replaced, brand new reflecting surfaces are automatically installed and the light output of the units is as high as the day the fixtures were installed. Each unit is equipped with a sturdy aluminum hinged guard with spring-loaded rubber roller snap-in latch.

Bulletin No. 137-53 gives complete details. Write for your free copy.

Floodlights with Impact Resistant Lens

The new, improved Steber Sportsliter is designed to give high level, economical illumination for baseball, softball and football fields, tennis courts, skating rinks and all outdoor areas. The heavy gauge aluminum reflector is finished in Anodal, an exclusive Steber electrochemical finish that forms a hard, non-corrosive surface to provide the ultimate in weather resistance.

The new lens used on all enclosed types is thermal shock and impact resistant and is especially important around sports areas to eliminate lamp and lens breakage.

Many other "expensive" features are incorporated in the Sportsliter, yet it is priced to protect your budget.

Write for Bulletin No. 127-53 for full details.

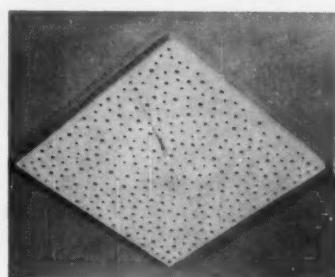
Stretch Your Budget . . . Steber Sales Engineers will be glad to call and recommend quality products at prices that will stretch your budget. We will also furnish lighting layouts without obligation. Write today!



STEBER MANUFACTURING CO.
Dept. 106, Broadview (Maywood P.O.), Illinois
STEBER MANUFACTURING CO. OF CALIFORNIA
242 So. Anderson St., Los Angeles 33, California
STEBER-WOODHOUSE LTD.
2368 Dundas St. West, Toronto, Canada

STEBER

Acoustical Tile SE-616
New Low-Cost Unit Developed



An economical $\frac{1}{2}$ " thickness has been developed for Minatone, an incombustible mineral fiber acoustical tile made by Armstrong Cork Co. Perforations in the new thickness are in the same Full Random design used on regular $\frac{5}{8}$ " Minatone.

The tile, in 12" x 12" and 12" x 24" sizes, can be installed by nail, screw or cement application. Minatone combines high sound-absorbing efficiency with fire-safety, complete repaintability and ease of handling.

ARMSTRONG CORK CO., LANCASTER, PA.

Master Key SE-617
For Soap Dispensers

This new master key, called the Bob-Key, can be used for all Bobrick tamper-proof soap dispensers.

By using the designated part of the Bob-Key only, it is possible to unlock and open the filler top as well as turn hex spouts and hex and Phillips-Head screws on any of these dispensers. On all of them, the wall-lock mechanism is concealed and can be reached only by means of this key.

The use of this Bobrick tamper-proof dispenser will prevent unlawful opening.

BOBRICK DISPENSERS, INC., 1839 Blake Ave., Los Angeles 39, Calif.

With only 25 moving parts...



AMWELD® EASI-FOLD is a SAFER bleacher!

You can make your next school job absolutely safe with Amweld Easi-Fold Bleachers. A triumph of engineering skill, these folding bleachers cannot collapse. Open supports are braced and locked — cannot fold in use. Special design eliminates danger of pinched fingers or legs.



SEND FOR INFORMATION

Amweld Easi-Fold Bleachers are ideal for all indoor spectator seating. Write for details today or see our catalog in Sweets' Architectural File No. 22.

**INSTITUTIONAL PRODUCTS DIVISION
THE AMERICAN WELDING
AND MANUFACTURING COMPANY**

535 DIETZ ROAD • WARREN, OHIO

April, 1955

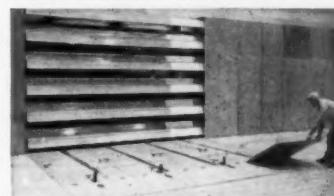
EASIER SWEEPING

Under structure is simple and uncluttered—makes "after game" clean-up quick and easy—plenty of room to push a floor brush.



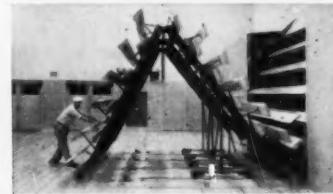
FOLDS FLAT AGAINST WALL

When not in use, Amweld Easi-Fold Bleachers fold up—out of the way—yield an extra bonus in usable floor space.



COMPLETE FLOOR PROTECTION

Floor protected when Bleacher is opened. Casters and vertical supports rest on protective cover—cannot mar expensive wood floors.



ONE MAN CAN OPERATE

Easi-Fold Bleachers roll out smoothly—are perfectly balanced for easy one-man opening and closing.

SE-618

Magnetic Tape Reel

Of Glass-Reinforced Plastic

A new reel features a 5/16-inch center hole and one-piece precision construction. It holds 2400 feet of Scotch brand No. 111 or No. 120 High Output magnetic tape, or 3600 feet of Scotch brand No. 190 Extra Play magnetic tape. It is designed for use on all standard tape recorders which will accept a 10½-inch reel, as well as on those machines which employ adapter arms for use with reels of this diameter.

The plastic construction provides a reel that cannot be bent out of shape or permanently distorted. Other features include V-slot threading; smooth labeling surfaces; raised beads around the hub and rim of the reel to prevent scratching of the surface of the reel; and, an attractive pearl grey color.

The rounded edges of the plastic flanges eliminate the danger of cut fingers, while the 20% weight reduction decreases momentum at high rewind speeds.

MINNESOTA MINING AND MFG. CO.,
900 Fauquier St., St. Paul 6, Minn.

SE-619

Telescope Chair Stand

Folds Back



Illustrated is the new telescopic chair stand by Berlin Chapman. Here the entire setup folds back into a compact unit to provide maximum floor space for other activities. When pulled out to its fullest length, it is a comfortable seating arrangement with the chairs rigid and safe.

BERLIN CHAPMAN CO., Berlin, Wis.

SE-420

from 30
to 12.
with Turn-Towls

A school in Pennsylvania* has an enrollment of 260 pupils. They used to require 30 cases of ordinary paper towels a school year. But now, since they've installed Turn-Towls, they have to buy only 12 double cases a year though enrollment has remained the same. This is only one of many instances in which Mosinee Turn-Towls have clearly demonstrated their superiority over other brands. With Turn-Towls you, too, may be able to reduce your paper towel costs by as much as 50%.

*Name on request

BAY WEST PAPER CO.
1108 West Mason Street • GREEN BAY, WISCONSIN
A Division of Mosinee Paper Mills Co.

MOSINEE Sulphate Towels

PREP-TOWLS • ZIP-TOWLS • TRIM-TOWLS • TURN-TOWLS • ROLWTOWLS • BATH-TOWLS

SE-620

Shop Project

Of Pre-Formed Aluminum



The Captain's Case is designed for construction in the school shop with commonly available hand tools. Students learn sheet metal techniques, blueprint reading, and fundamental mechanical skills by working with this project. The kit consists of authentic aircraft aluminum materials and includes pre-formed top, bottom and ends, all hardware, rivets and rivet set, precision blueprints and easy-to-follow instructions.

An instruction manual is also available to teachers.

SCHWEIZER AIRCRAFT CORP., Elmira, N. Y.

AMEREX—new metal-and-plastic top on *American Seating Unit Tables* adds years of "Wear-Life"

Full Line of Functional Tables with Finest Use Features

New AMEREX metal-and-plastic tops on Unit Tables No. 528 and 524 are stronger, yet lighter in weight than ordinary plastic tops.

A die-formed steel frame supports the plastic work-surface panel, which is 5 times more resistant to wear than wood desk-top finishes and ends all warping, checking, splitting and other hazards. The satin-smooth surface has a color-fast, birch-grain pattern with 45% light reflectance. A continuous metal band fully protects all edges.

The sturdy twin oval standards of these tables assure stability, permit students to get in or out with minimum chair scraping, and conserve floor space by allowing closer spacing of units. Each table has a strong, sanitary, one-piece steel book-box with pencil tray.

Companion Envoy Chair No. 368, is designed for good posture sitting, has hardened-steel, rubber-cushioned glides that protect floors. "Knee-action" keeps them flat on floor when chairs are tilted. *Send for fully descriptive folder on American Unit Tables.*



No. 524. One-piece top with level surface permits placing units together for group work. Entire top lifts for access to book-box, has no-slam device, stays in raised position without support.



No. 528. Has the famous, exclusive 3-position, "Ten-Twenty" top; 10°-20° slopes best for reading, writing, art work; also level position for manipulative and group work.



No. 329.

Open-front economy table with flat top. Available with top of either Amerex hard-core plastic, or all birch plywood.

American Bodiform Auditorium Chairs
Full-upholstered—the ultimate in comfort, beauty, durability, acoustical benefit. With or without folding tablet-arm.

American Seating Company

WORLD'S LEADER IN PUBLIC SEATING

Grand Rapids 2, Mich. Branch Offices and Distributors in Principal Cities.
Manufacturers of School, Auditorium, Theatre, Church, Transportation,
Stadium Seating, FOLDING CHAIRS.

Blackboard Spinner SE-621

A Classroom Game



This new Blackboard Spinner at-

taches to any classroom blackboard, and allows any teacher to make a game out of any subject. It also gives the teacher a means of analyzing class and pupil progress as the game is being played.

Spin-a-test is offered in two models—a one-piece all-hardwood spinner and cup in harmonious colors or with a rubber head, tail and cup for maximum durability. Both models are 18" long and come complete with instructions.

SPIN-A-TEST CO., Dept. 50, P. O. Box 241, Hermosa Beach, Calif.

SE-422

Prize-Winning School

GLENBROOK HIGH, NORTHBROOK, ILL., ARCHITECTS: PERKINS & WILL

Note how these Keweenee Lincoln Desks provide maximum student capacity with the utmost in working convenience. Lincoln Desks are just one of the exclusive features that have made Keweenee the nationwide favorite for finer schools.

You pay no premium for all the extra values Keweenee gives

1. Nearly 50 years of experience in serving the Educational Laboratory Field.
2. Incorporating the practical suggestions that have come from America's leading educators and technicians.
3. The finest quality throughout, both in materials and workmanship.
4. Famous KemROCK Resistant Tops for working surfaces.
5. A wide selection of equipment to meet every possible laboratory need.
6. The Free services of a Keweenee Engineer—available without cost, to save you time, space and money.

Whatever your School Laboratory needs may be—in wood or metal—write for the Keweenee Catalog. See how Keweenee Unit Assembly design can give you a "Prize-Winning Laboratory" at no extra cost.

VISIT OUR A.A.S.A. EXHIBIT: Cleveland, Space F-2-4

Keweenee Mfg. Co. 5031 S. Center St. • Adrian, Michigan
J. A. Campbell, President
Sales Representatives in Principal Cities

Utility Table

SE-622

Collapses for Easy Storage



This modern utility table, styled to blend with the simple lines and clean tones of modern interiors is now available for the new beige-toned Singer slant-needle sewing machine.

The sewing machine fits perfectly into the top to make a roomy sewing table. When the machine is removed, the recess is concealed by a cover that is flush with the table to make a streamlined table. It collapses for easy storage. The pale maple tone of the top is color-matched to the sewing machine. Although the tapering legs give a lightweight appearance, they are set at an angle to the table top for added strength.

SINGER SEWING CO., 149 Broadway, New York 6, N. Y.

Sod Cutter

SE-623

Cuts 15 Sq. Yds. Per Minute

Dual rear wheels that have been castored for complete maneuverability and can be locked in a straight-on position when needed are now standard equipment on the new Ryan Auto-Cut-Off Power Sod Cutter. A new free wheeling clutch has also been added so drive wheels can be disengaged for easy moving, forward or backward.

One-man operated, it will cut sod at the rate of 15 sq. yds. per minute, automatically measuring and cross-cutting in the same operation. Designed length of strip can be pre-set from 1 to 9 feet.

RYAN LANDSCAPING EQUIPMENT CO., 871 Edgerton St., St. Paul, Minn.



"Janitors can be efficiency experts, too."

If they follow this fellow's example. He knows that with a SUPER WESTONE treated mop he can control dust and beautify his floors — just as fast as he can walk.

SUPER WESTONE actually cuts the cost of floor care.

- loosens and picks up dirt more readily.
- increases time between waxings.

SUPER WESTONE is *antiseptic*.

- arrests the growth of bacteria.
- helps prevent spread of airborne infections.

AND SUPER WESTONE is safe to use on any floor surface.

No fire hazard exists, because it can be mixed with water. And no residual "build-ups" are left on floors.

OLDEST AND LARGEST
COMPANY OF ITS KIND
IN THE WORLD

A WEST representative will be glad to demonstrate. Without charge. Or send for our SUPER WESTONE folder.



WEST DISINFECTING COMPANY
42-16 West Street, Long Island City 1, N. Y. (Branches in principal cities)
In Canada: 5621-23 Casgrain Ave., Montreal

Dept. 15

- I'd like a free copy of your folder on controlling bacteria and dust with SUPER WESTONE.
 I'd like to have a WEST representative telephone me for an appointment.

Name _____

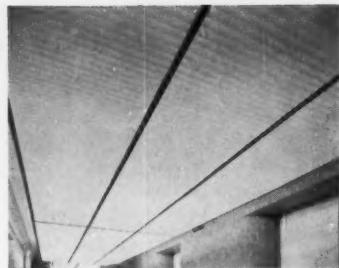
Position _____

(Tear out this coupon and mail it with your letterhead)

Luminous Ceiling SE-624

Creates a Ceiling of Light

A new luminous ceiling, capable of being installed and maintained at substantially lower cost than conventional type illuminated ceilings, is now being produced by Pittsburgh Reflector Co. Known as Luma-Ceiling, the ceiling itself is a combination of white translucent vinyl, corrugated for rigidity and supported on extruded aluminum channels com-



bined with standard Pittsburgh Fluorescent or Slimline Strip.

SE-624

The new ceiling literally creates a ceiling of light which is soft and diffused, yet can be installed to give any required level of illumination. The illumination produced eliminates shadows and sharp contrasts.

PITTSBURGH REFLECTOR CO., 410 Oliver Bldg., Pittsburgh 22, Pa.

Metal Brightener SE-625

Good for Food Utensils

Oakite Highlite is a new cleaner designed for the removal of residues and corrosion from stainless steel and copper equipment in food handling plants.

Combining acidic and abrasive properties in one material, Oakite Highlite is applied like a scouring powder with a pad or cellulose sponge. It is allowed to set for a short time, then removed by rinsing while brushing.

OAKITE PRODUCTS, INC., 157 Reector St., New York 6, N. Y.

Ceiling Air Diffuser SE-626

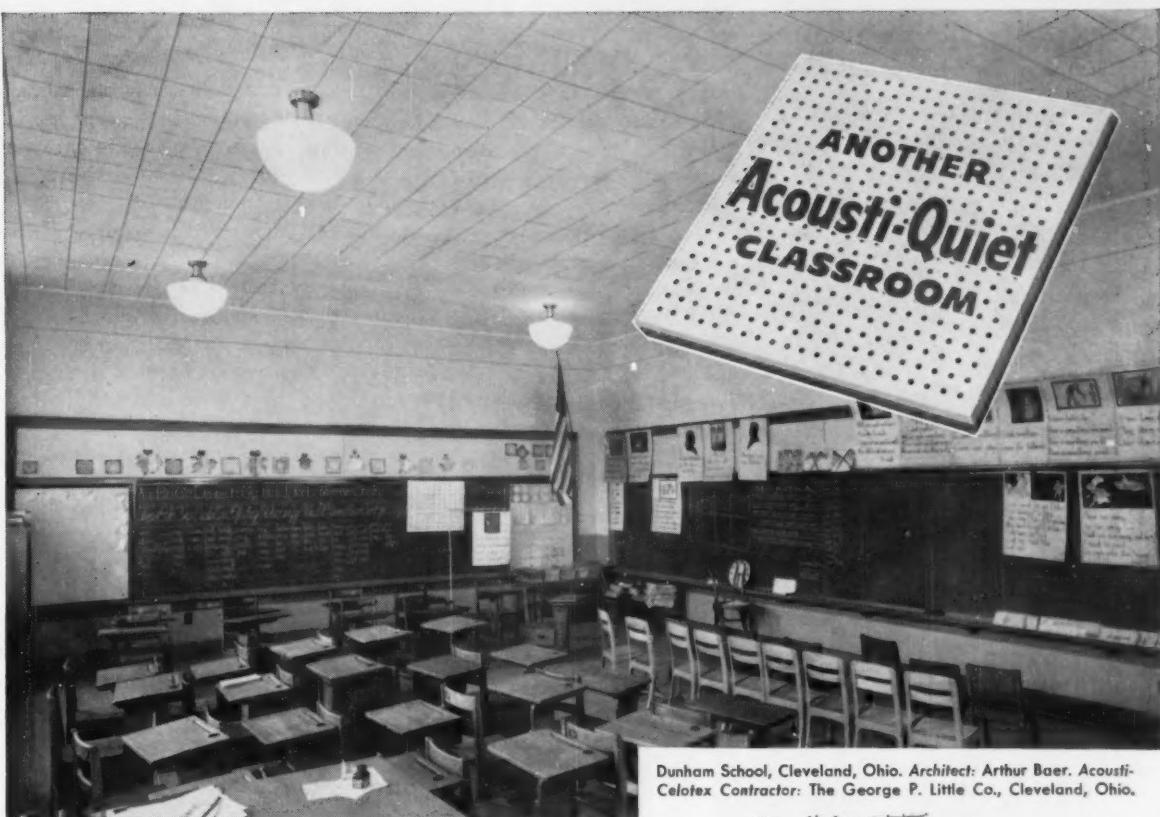
Is Simple, Compact, Low-Cost



The single, high induction air stream of the new Connor Type ABC ceiling air diffuser results in rapid and draftless mixing of supply and room air.

Incoming air is deflected away from the adjacent ceiling by a built-in anti-smudge cone, a protection against unsightly dirt rings when the diffuser is flush-mounted. A calibrated, sleeve-type damper accurately regulates air volume, permitting simple and rapid system balancing. Air quantity, but not discharge velocity, is affected by the damper. Hence the diffusion pattern within the space remains uniform regardless of damper setting.

CONNOR ENGINEERING CORP., 500 Fifth Ave., New York 36, N. Y.



Dunham School, Cleveland, Ohio. Architect: Arthur Baer. Acousti-Celotex Contractor: The George P. Little Co., Cleveland, Ohio.

Readin', Writin'... and **QUIET**

The modern school board realizes today that *learning* involves more than merely exposure of the student to knowledge. A seemingly "slow" child often may be simply the victim of uncontrolled noises that interfere with concentration, retard study. To give every youngster an equal chance for unhindered education, many of the nation's schools are utilizing Acousti-Celotex Sound Conditioning.

Effective Solution—The Board of Education of Cleveland, Ohio, totally endorses acoustical treatment for its school buildings. In the Dunham School, the entire structure was sound-conditioned with economical ceilings of Acousti-Celotex Tile. Disturbing sounds are checked in classrooms, library, study halls, corridors, foyers, gyms, cafeterias. The *quiet comfort* thus makes learning . . . and teaching . . . far more pleasant.



Easily Maintained—Quickly installed in existing school buildings or during new construction, Acousti-Celotex Tile needs no special maintenance thereafter. It has exceedingly high sound-absorption value. And it offers a wide variety of beautiful surfaces which may be washed *repeatedly* and painted *repeatedly* without loss of sound-absorbing efficiency.

Mail Coupon for a Sound Conditioning Survey Chart that will bring you a free analysis of the noise and acoustical problems in your school, plus a free factual booklet, "Sound Conditioning for Schools and Colleges." No obligation.

—Mail Now!—

The Celotex Corporation, Dept. D-45
120 S. LaSalle St., Chicago 3, Illinois

Without cost or obligation, please send me the Acousti-Celotex Sound Conditioning Survey Chart, and your booklet, "Sound Conditioning for Schools and Colleges."

Name _____

Institution _____

Address _____

City _____ Zone _____ State _____



ACOUSTI-CELOTEX
REGISTERED U. S. PAT. OFF.
Sound Conditioning

Products for Every Sound Conditioning Problem—The Celotex Corporation, 120 S. LaSalle Street, Chicago 3, Ill. In Canada: Dominion Sound Equipments, Ltd., Montreal, Quebec.

Microscope Illuminators

Simplify Set-Up Operations



Three new microscope illuminators, designed to simplify microscope set-up operations, have been

SE-627

introduced by Bausch & Lomb Optical Co.

External knob controls eliminate many problems in obtaining correct light adjustment for effective microscopy and two of the illuminators are color-corrected for precision photomicroscopy.

The three illuminators provide professional quality and ease of operation with such features as knob controls for all adjustments rather than screws or clamps. Lamp replacement on all models is particularly easy.

BAUSCH & LOMB OPTICAL CO., 635 St. Paul St., Rochester, N. Y.

SE-628

School Furniture **Features Plastic Tops**

G. E.'s Textolite plastic surfacing will be featured on the complete 1955 line of classroom furniture, cafeteria and library tables manufactured by Griggs Equipment Co.

It is expected that use of the plastic tops will reduce school maintenance costs since the surface remains smooth and serviceable after years of wear and is easier to keep clean.

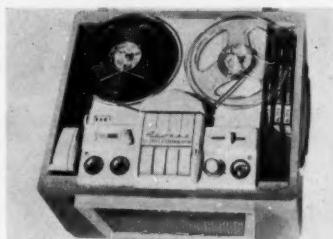
The wear-resistant desk and table tops have a steel-like surface that is unharmed by ink, chalk, crayons, paints and most other classroom hazards.

GRIGGS EQUIPMENT CO., Belton, Tex.

SE-426

Dual-Speed Tape Recorder

With Automatic Key-Board Control



Operating at tape speeds of 3.75 and 715 inches per speed, the T-700-D records one or two hours per seven inch reel according to tape speed, giving operators a choice of speeds as well as other features.

Keyboard control is electrical solenoid operated, boasts instant positive action of light finger touch.

Revere's "Balance Tone" feature is the control which coordinates amplifier and acoustic system response to give high fidelity sound reproduction.

Other features embodied in the T-700-D include an index counter; high speed forward and rewind; and dynamic type microphone.

This new dual-speed recorder comes complete with microphone, radio attachment cord, two reels and carrying case.

REVERE CAMERA CO., 320 E. 21st St., Chicago, Ill.

THE SCHOOL EXECUTIVE

*an uncommon combination of
Quality, Economy and Simplicity..*



DeLuxe

STEEL

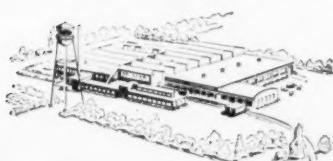
LIBRARY SHELVING

This is an actual space-saving installation of
Deluxe Steel Library Shelving.



BUILDS QUALITY into STEEL LIBRARY SHELVING

- Sections completely finished . . . with full end panels and tops. Note: no additional extra cost parts needed.
- Special design adds many extra lineal feet of book capacity over ordinary types of library shelving.
- Made for aisle or against-the-wall installations.
- Available in 36" wide sections, single or double faced, with or without closed back.

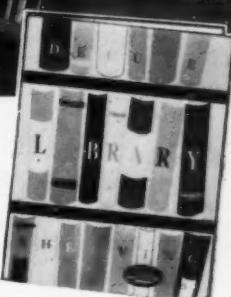


DE LUXE METAL FURNITURE COMPANY
341 STRUTHERS ST., WARREN, PENNSYLVANIA

A DIVISION OF ROYAL METAL MANUFACTURING COMPANY

FREE BULLETIN...

Write for Bulletin No. 52. Send your requirements to our Design and Estimating Department for layout and quotation. Or, we will be pleased to work directly with your architect.



SE-630

Garden Refuse Burner

Is Portable

A new garden refuse burner provides a safe, easy and convenient way to burn leaves, twigs, trimmings and other garden refuse. By "burn-as-you-go" action, the device cuts clean-up time in half, permits burning in any location, and eliminates the danger of the fire getting out of control.

The entire unit is constructed of heavy gauge steel. A perforated base facilitates excellent draft and assures fast burning with a minimum of



perforated base, catches ashes and prevents unsightly ash piles. Dumping is accomplished merely by tilting unit forward.

GARDENING PRODUCTS, INC., 1502 State Highway #23, Wayne, N. J.

SE-631

Junior Planetarium

Has Arrow Attachment



smoke and smell. Special steel ash collector, located four inches below

SE-428

No other tables have as many "Extra Features" as

Mitchell
FOLD-O-LEG
tables

- ★ GREATER SEATING CAPACITY
- ★ MORE LEG COMFORT
- ★ UNEQUaled APPEARANCE, DURABILITY, STRENGTH
- ★ FINEST CONSTRUCTION, MATERIALS, FINISHES
- ★ BUILT FOR LONG SERVICE

*The Strongest,
Handiest Folding
Table Made!*



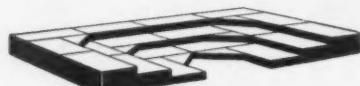
SMOOTH, SANITARY
TOPS of Masonite
Preswood, Linoleum,
Fir or Birch Plywood,
Formica and Resilite

TUBULAR STEEL FOLDING LEGS



FOLD UNDER FOR STORAGE

QUICK, EASY SET-UP ★ FOR CHANGING ROOM USES



1, 2, 3, 4 LEVEL BANDSTANDS

"U" shaped set-up for BANDS and ORCHESTRAS allow unobstructed vision of musicians, director and audience. Improve appearance, discipline and director control. Some units set-up in a straight line can be used as stepped-up audience seating risers.



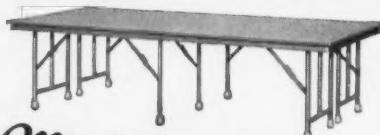
1-LEVEL PLATFORMS, STAGES

For speakers, raised speakers tables, ceremonies, acts, style shows. Quick set-up or removal. Used in Schools, Colleges, Churches, Hotels, Clubs, Lodges. Each unit only 2½" thick when folded. Store in small space.

USE THE SAME UNITS FOR
MANY DIFFERENT ARRANGEMENTS

MFRS. of MITCHELL FOLD-O-LEG TABLES, BAND AND CHORAL STANDS, SEATING RISERS

ANY SIZE STAGE IN ANY
ROOM OR HALL, ANYTIME



**Mitchell PORTABLE
FOLDING STANDS**

- ★ Each unit a SAFE stand in itself
- ★ 4'x8'x3¼" Tops, 8" 16" 24" 32" heights
- ★ Strong, rigid TUBULAR STEEL LEGS

Write for Descriptive Folder

MITCHELL MFG. CO.

2726 S. 34th St. • Milwaukee 46, Wis.

A new 1955 model of the Spitz Junior Planetarium is equipped with an electronically operated arrow attachment for pointing out constellations projected on the ceiling.

The arrow indicator plugs into an outlet in the base of the planetarium. Both planetarium and indicator are made of tough unbreakable plastic, attractively colored.

HARMONIC REED CORP., Rosemont, Pa.

SE-632

Pre-Wash Unit

Saves Labor and Cost

Sunroc's new pre-wash assembly completely removes all food particles and heavy grease deposits from dishes before they are placed in dishwashing equipment. It reduces dishwashing costs by eliminating hand scraping operations.

All castings are brass and the unit is easily installed and attached by separate hot and cold lines. It is operated by a flexible, stainless steel hose with spring action that snaps the hose into a convenient position when not in use.

The Sunroc pre-wash has a non-breakable Durez nozzle, specially designed to divert the stream into a wide angle spray, which reaches into crevices and recessed areas that are sometimes neglected.

SUNROC REFRIGERATION Co., Glen Riddle, Pa.

"I didn't realize at first
that no key pressure was needed."



Are you teaching the different key stroking of the Royal Electric in your classes?

With the trend more and more toward electric typewriters in business, complete familiarity with them should be gained in the classroom.

Otherwise, the girl unfamiliar with the new Royal Electric meets it for the first time in the business office.

Inevitably, she'll be slowed down at first as she adjusts her heavier manual touch to the light, relaxed key stroking made possible by the new Royal Electric.

Ten hours of instruction is the minimum. Notice



STANDARD, ELECTRIC, PORTABLE TYPEWRITERS

Roytype® business supplies

Royal Typewriter Company, Division of Royal McBee Corporation

the big smile of approval as your students adapt themselves to the touch. You and your students will soon find out how much easier, faster and more rewarding it is to type on the Royal Electric.

If you haven't already installed Royal Electrics in your classroom, the coupon below will bring a Royal Representative with this finest of electric typewriters. No obligation.

CLIP COUPON

**Royal Typewriter Company
School Dept., 2 Park Ave., New York 16, N. Y.**

Gentlemen: Please arrange for a demonstration of the new Royal Electric in my classes without obligation.

Name _____

School _____

City _____ State _____

Table-Bench Units SE-633

Have Been Redesigned



Schieber Sales Co. announces an important design change in their Port-A-Fold type folding table and bench units involving the tracks in

the pockets into which the detachable, portable tables and benches fasten. Tables and benches of any height may now be returned to any pocket which will reduce the time consumed in converting the room for other activities after the lunch hour.

SCHIEBER SALES CO., Detroit 39, Mich.

SE-634

Low-Brightness Louver For Use With Lite Blox Troffers

The Guth low-brightness louver

has a high Visual Comfort Index due to the parabolic design and the new precision rolled cross-baffles which are designed for excellent diffusion and low-brightness.

The Paraflector with cross-baffles provides 35° crosswise and 25° lengthwise lamp-shielding. It is made of No. 1 reflector aluminum and finished with Alzak after forming . . . for long life and high efficiency.

For easy maintenance, the entire center "V" and cross-baffle assembly may be removed by pressing the hold-locks. The assembly is supported on chains for easy relamping. Paraflector is available for 2/40 watt conventional, rapid-start and slimline operation or for 2/75 watt slimline.

THE EDWIN F. GUTH CO., 2615 Washington Blvd., St. Louis, Mo.

SE-635

Vacuum Cleaner

Is Powerful, Versatile



The E-200 vacuum cleaner is suitable for such heavy volume jobs as cleaning out elevator pits, bulk storage areas or for ordinary maintenance cleaning.

This unit features a maximum 45" water lift and 18-gauge steel tank with a capacity of 10 gallons wet or 1 1/4 bushels dry. It will pick up water, cleaning solutions, liquid spillage, dirt, lint, scraps of foreign material—anything either wet or dry. And it will spray paint or insecticides or blow dirt and dust out of inaccessible places such as motors, machines, etc.

A full range of attachments is available.

MULTI-CLEAN PRODUCTS, INC., 2277 Ford Parkway, St. Paul 1, Minn.

Whatever your exhibit requirements...



MICHAELS *Time-Tight* CASES are your best buy

This is one of many styles—all built to assure maximum visibility and usefulness, distinctive appearance and protection against handling, theft, and the ingress of dust or vermin. "Time-Tight" cases are constructed of extruded bronze or aluminum, and incorporate such features as Innerlocking frames, exclusive with Michaels; mitered intersections; no exposed screws (except where necessary for removal of hinged panels), and other structural advantages.

"Time-Tight" cases are available in table, aisle, wall, corner, suspended and recessed styles, and in any practical size. They meet exhibit requirements of universities, colleges, schools, libraries, museums, science laboratories and related types of display rooms. If necessary, Michaels will design special cases to meet specific requirements.

Send for literature which contains illustrations of case styles, complete construction details and specifications.



THE MICHAELS ART BRONZE CO., INC.
P. O. Box 668-SE • COVINGTON, KENTUCKY

Since 1870 the name Michaels has been a symbol of exceptionally high quality

Announcing

CURRENT AFFAIRS CLUB of AMERICA



WHAT CAC DOES FOR YOUR SCHOOL

- Solves the perplexing problem of how to teach current affairs in the Hydrogen Era.
- Sends a continuous stream of integrated color graphics to your school, weekly and monthly, each with its own Lesson Plan.
- Acts as a Clearing House on the endless questions which are beyond the research facilities of your school or community.
- May be superimposed on your curriculum or woven into it.
—and does all this at an astonishing low cost per pupil!

HOW CAC WORKS

Current affairs is an endless stream. So is CAC. From registration to renewal, CAC teaching tools arrive in your school ready to be put to work. They come in three stages: permanent (first shipment), weekly and monthly. Studying and teaching the CAC way is a fascinating experience.

- For elementary schools (grades 5-9) the focus is on the United States.
- For high schools (grades 9-12) the focus is on the World.
- In both programs, CAC does three basic jobs, all three essential for the eventual development of a geopolitically alert high school graduate:

- 1. CONCEPTUALIZES, in current and continuous color graphics, basic national and/or international problems;**
- 2. RELATES these problems to the student's own life;**
- 3. GROUNDS the student in this method of conceptualizing so that, as an adult, he will continue to do so.**

CAC Advisory Board (in formation)



Warren Austin
Honorary Co. Chairman



William H. Bristow
Director, Bureau
of Curriculum Research
N.Y.C. Board of Education



Frederick G. McLaughlin
Director, Junior Red Cross
New York City



Mrs. Wm. Barclay Parsons
Vice President,
National Council of Women

In addition to CAC's high-attention teaching tools, CAC provides both teachers and students with *extra* services (how to find Pen Pals, how to set up Exchange Student Fellowships, how to take a study tour, how to get good speakers for Assembly, etc., etc.). CAC will be your school's "parent body" for all current affairs problems—both tangible and intangible.

Because there has never been anything like CAC before, we want you to be sure to have full details before you as you plan your social studies program for next fall. Simply fill out and mail the coupon below.

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Please send us your booklet titled "Teaching Current Affairs in the Hydrogen Era" which includes details about CAC, its value to my school(s), and its cost. No obligation, of course.

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Grade Level(s)

SE-636

Bottle Stopper Clamp**Cast From Aluminum**

A new clamp, designed to hold rubber stoppers firmly in place in large storage bottles and prevent the stoppers from popping out, has been developed by Central Scientific Co.

Cast from aluminum for strength and light weight, the Cenco bottle stopper clamp consists of a U-shaped yoke, measuring 3 inches from tip to



tip, with a pillar at the base from which a hinged arm extends over the center of the stopper. An adjustment screw at the top of the pillar forces the arm downward on the stopper to hold it firmly in the neck of the bottle.

For use in chemical, bacteriological and biochemical laboratories, the clamps are available individually or in lots of 36 and 72.

CENTRAL SCIENTIFIC CO., 1700 Irving Park Rd., Chicago, Ill.

SE-432

general PROUDLY PRESENTS THE NEW *Soliform Table Desk*

Model 78

...Another Bargen Creation

Check These Features:

- Palette-shaped top supports writing arm
- Easily movable, but won't slide in use
- Maximum work area in minimum space

The new Soliform table desk is a worthy addition to the famous Bargen Staput series. Like the General Staput-Movable desk, the Soliform is functional, beautiful and built to stand hard use. The Soliform and the Bargen-designed Academy chair provide the only table and chair combination that effectively controls posture. Moves easily and quietly for special classroom formations, stands firmly on Neoprene shoes when in use.

Model 78 is the Soliform with lifting-lid book box; Model 76 is the Soliform without book box. (Open front book box available for Model 76.) Natural wood, plastic or Fibreglass tops.

Write for literature

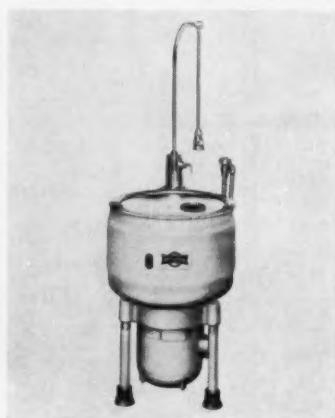
general



Featuring the designs of William James Bargen
SCHOOL EQUIPMENT COMPANY
869 HERSEY STREET, ST. PAUL 14, MINN.

Waste Disposer

SE-637

Pulverizes 2000 Lbs. Hourly

Four completely new, more powerful disposer models have been announced by Given Mfg. Co. Capable of pulverizing up to 2,000 lbs. of mixed garbage per hour, the new units are designed for heavy volume food service establishments.

Each of the four units comes complete with all necessary controls and fittings and is designed to fit almost every need and location. Models IND 954-3 and IND 854-3 are equipped with powerful 3 hp motors, models IND 954-1½ and IND 854-1½ with 1½ hp motors.

Other features include the Silver-Gard designed to prevent silverware from being lost, the Rind Ripper which shreds large pieces of fruit rinds, Swirl-Sprays that rapidly flush heavy volume garbage into the unit, and the well-known Hush-Cushions which absorb noise and vibration, affording smooth and quiet operation.

GIVEN MFG. CO., 1250 Wilshire Blvd., Los Angeles, Calif.

(Continued on page 208)

Give us your problem Floors!

Floor space is at a premium in today's crowded buildings. Often the only practical way to expand is by restoring run-down areas to use, or to a higher type use. Your nearby Hillyard Maintainer® is an expert floor consultant, experienced in the art of restoring even "hopeless" floors to new beauty and utility. Give him a chance at your worst floor problem!



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takes into consideration:

the kind of floor — wood, resilient tile, cement or terrazzo...
the floor's location, and what is next to it
the floor's condition
the kind and amount of traffic it carries
....your standards for appearance —
for cleanliness — for safety



A Hillyard Maintainer planned the restoration and maintenance of this cement floor — and now an unused basement room is a popular recreation area.

• a Hillyard Floor Survey can show you how to:

Give your floor tailor-made treatment, make it look better than you ever dreamed it could! Prolong its life by many years. If you are renovating, don't tear out old floors till you've talked to your Hillyard Maintainer!

Reduce frequency of treatment, save you many dollars in material and labor costs! No charge, no obligation for this Hillyard service.

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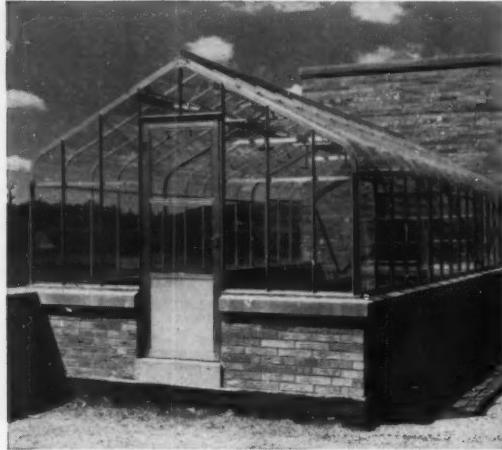
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So perfectly does the Everlite meet and exceed the special requirements for school and institutional use, that it might have been custom designed to your architect's specifications. Check these standard features that make Everlite the outstanding buy for your school installation . . .

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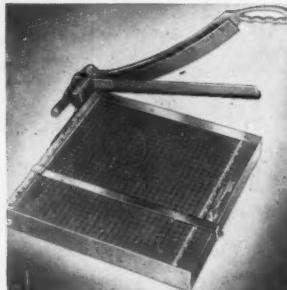
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SE-435

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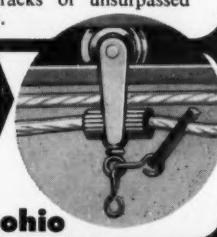
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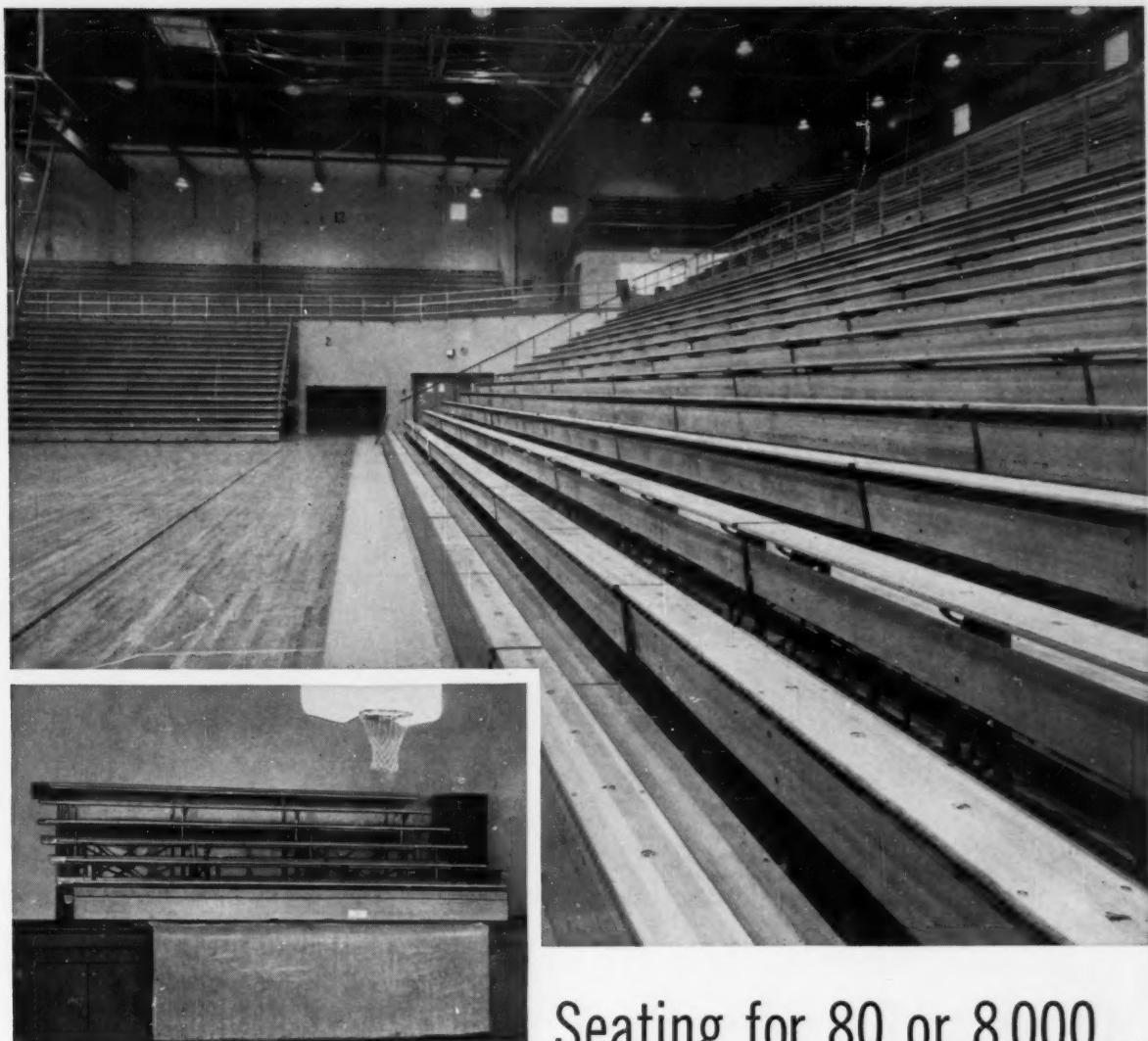
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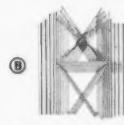


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ALL-STEEL UNDERSTRUCTURE: (A) tubular column supports; (B) cross tie angles and bracing (no sway, shimmy or shaking). (C) Each row automatically locks as it opens and closes.



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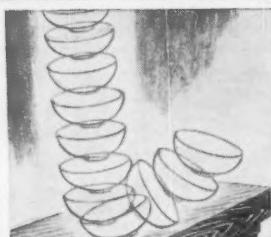


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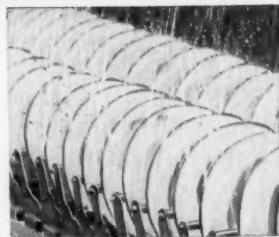
1. PROOF of sensational durability. Cups hammer 3-inch nails through heavy board without breaking.



2. SO TOUGH you can drop them without damage from a height twice as great as other ware. Cuts breakage.



3. 20% LIGHTER in weight than competitive ware. Easier to stack, handle and carry. Your help will like this.



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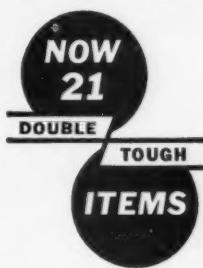


**No Matter How Rough You Treat Them,
They'll Cut Your Replacement Costs!**

● Ever since this amazingly durable dinnerware was introduced, food servers have been urging us to fill out the line. Now, here it is—a complete set of CORNING Double-Tough Dinnerware!

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tomers treat these pieces—you will save money on replacement costs!



● Twelve additions have been made. Above is the entire line—twenty-one pieces of dinnerware and four styles of tumblers. Why not standardize on CORNING Double-Tough right now! See your authorized CORNING Double-Tough Equipment Dealer today!

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COMPLETE LINE OF DINNERWARE AND TUMBLERS

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C-7703B DRAWING TABLE

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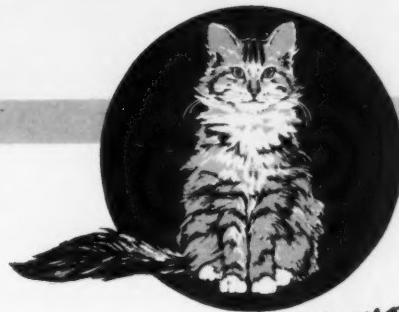
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Same as No. 1525, but without key-control.

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New... **TORNADO** NOISELESS VACUUM CLEANER



It "Purrs" as it works



This is the introduction of another Tornado vacuum cleaner developed to meet the needs of "Modern Maintenance".

The new Tornado Model 240 Noiseless is the perfect answer for cleaning conditions where noise is a factor, and yet powerful suction is necessary for speed and thorough cleaning.

What's more—it does both wet or dry pickup with equal efficiency. The powerful 1 H.P. multiple stage motor has a separate cooling system completely isolated from the suction or cleaning air.

For schools, hospitals, hotels, motels, restaurants, apartments or offices, the Tornado 240 is "The" answer to fast, powerful, noiseless cleaning.

We'll be glad to give you an "On-the-spot" demonstration. Be sure to write for Tornado Bulletin 707 today.



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Fast, quiet cleaning of carpeted floors with the New Tornado Noiseless.



Tornado Noiseless quickly picks up liquids or scrubbing solutions—leaves floors "bone dry".

SE-638
Floor Patching Material
Is Ready for Traffic Immediately

This new ready-mixed material can be subjected to heavy traffic immediately after application.

Suitable for use in repairing concrete, brick, mastic, or composition floors, the new material is known as Jet-Roc.

Application consists of simply priming the floor hole, filling with Jet-Roc just as it comes from the package, and tamping or rolling.

Jet-Roc is resistant to oil, gaso-

line, grease, milk, water, soap and many acids and is recommended for both indoor and outdoor use.

THE MEDAL BRICK & TILE CO., Wooster, Ohio.

SE-639
Power Mower

Is Easy to Turn, Maneuver

The new Clemson power lawn mower uses a finger-tip operation to turn and maneuver with the Power-Drive. The mower is started and stopped by a slight push or pull on



the handle. The motor will move only when the handle is in an operating position; drop the handle and the mower stops.

Other engineering improvements make it easier to trim, to adjust the height of the cutting reel, and to get over sidewalks and driveways with the power on.

CLEMSON BROS., INC., Middletown, N. Y.

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true ECONOMY
 in STEEL AGE

Quality



STYLE 5560
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DOLLAR FOR DOLLAR, you'll ... get more value for your money when you equip your school with Steel Age, the Quality Choice of Modern Offices. For example, the striking new "Correlation" Line—which includes the two illustrated pieces—is completely correlated so that you can (1) Expand single pieces to fit growing space demands without a completely new investment, and (2) Combine individual units to create tailored work areas. Even the first cost of "Correlation" is lower than most conventional steel desk units. • Call your Steel Age dealer for more information today.



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Steel Age

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SE-640
Ladder-Truck
Engineered for Safety



The Safe-Lad has an overall height of 78", length of 42" and width of 26", yet is easily rolled to the job—on standard elevators or through regular doorways.

Although completely mobile, the unit is also a firm work platform with no chance for horizontal movements. As the operator puts his foot on the first step, the two swivel casters are automatically retracted making the unit rest solidly on rubber-tipped steel legs.

SAFE-LAD MANUFACTURING CO., 1001 S. E. Morrison, Portland 14, Ore.

designed by a champion for championship performance for a lifetime

SAFE Its aircraft design eliminates the torque (twisting action) at the tip of the board, giving an added safety factor not found in any other type diving board. The non-skid Safety Tread is full 18" wide.

OFFICIAL Meets all requirements for A.A.U., N.C.A.A., F.I.N.A. Championships.

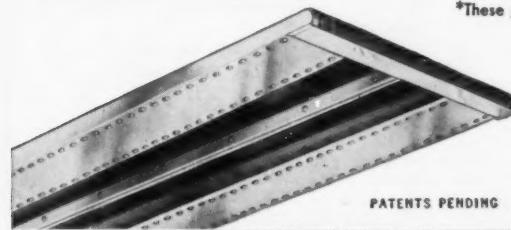
DURABLE It will give years of dependable service under constant use. Built to withstand the everyday rugged use which the commercial pool patrons will give it, yet will provide maximum springing qualities.

BEAUTIFUL The graceful lines and glistening aluminum color of the Lifetime board will enhance the beauty of your pool.

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LIGHT WEIGHT Weighs less than conventional wood or coated-wood diving board, is easier to install or remove for storage.

SCIENTIFICALLY DESIGNED Designed to withstand many times the actual load requirements. Its spring-leaf design gives added strength in the fulcrum area where it is most needed, and lightness at the tip.



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"I like the feeling of firmness under my feet, and the lightness at the tip. You get so much more height without effort. This is really a dream board . . . the very finest I have ever dived on."

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Only American Approved Jim Patterson LIFETIME Aluminum Diving Boards Offer You These Highly Important Plus-Features

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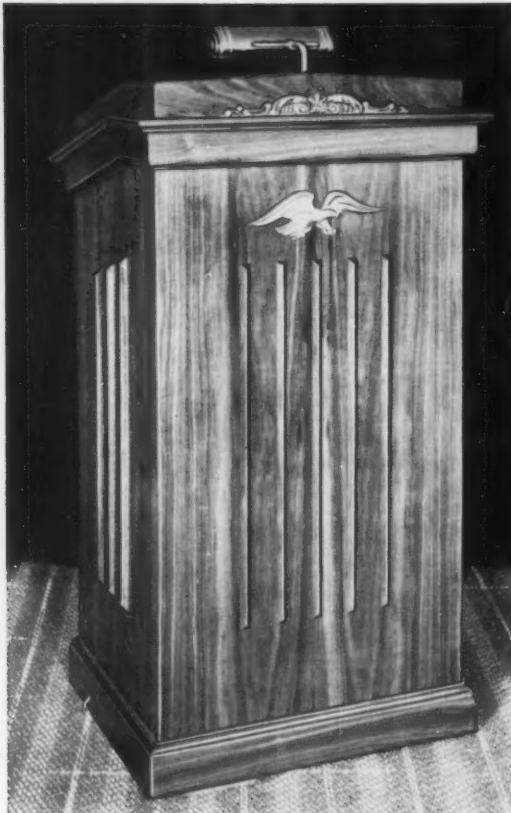
No. APL-14 LIFETIME Aluminum Board, 14' long,
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*These prices are f. o. b. our factories at Anderson, Indiana or Columbus, Ohio

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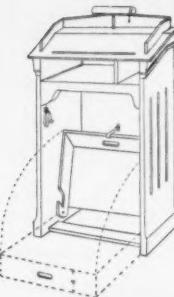


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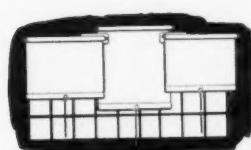
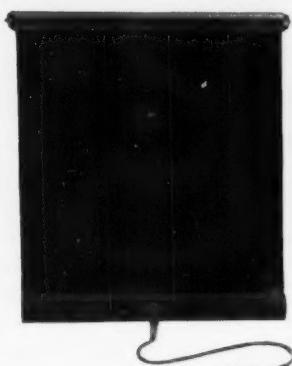
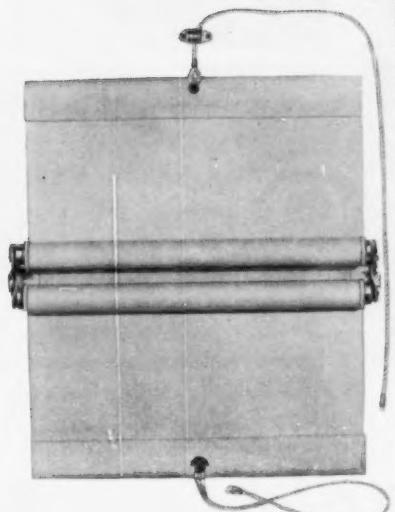
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SE-641

Fluorescent Luminaires

Are Only 2 $\frac{5}{8}$ " Deep

The new Thin-Lite series of luminaires have a depth of only 2 $\frac{5}{8}$ " and create a semi-recessed effect, although surface-mounted to the ceiling. Actually the depth below ceiling is essentially the same as that of troffers fitted with dished plastic or glass shields.

Four different luminaires are available in the series. Two are 49" in length and two units are 97" long. In each length there is a two-lamp

model, 12 $\frac{1}{4}$ " wide; and a four-lamp model, 26 $\frac{3}{4}$ " wide. These Thin-Lite luminaires may be mounted end to end or side by side to form an almost unlimited variety of light patterns up to any desired size.

LIGHTING PRODUCTS, INC., Highland Park, Ill.

SE-642
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Folds Up in Own Case

The Bioscope is suitable for teaching science in the primary grades right through college. Microscopic



specimens may be projected on a screen where a large group can be shown the subject matter, and various parts actually pointed out and named by the instructor. An entire set of slides may be shown and studied during one class period with ease.

This unit is very light and compact, weighing only 11 lbs. and standing just 16" high when closed. No parts will corrode or become dull in finish. Initial magnifications ranging from 5 times to 200 times with 1000 or more times magnification possible by increasing distance of projection.

BIOSCOPE MFG. CO., P.O. Box 1492, Tulsa, Okla.

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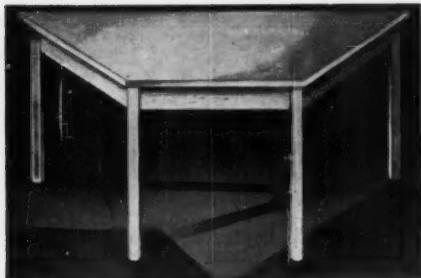
Reading Accelerator SE-643

In Non-Electrical Model

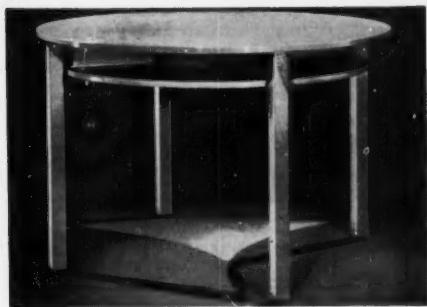
A new, non-electrical model of the SRA Reading Accelerator, a reading-space device, has just been developed. The Accelerator operates with a wide steel shutter that travels down a page of reading material at an adjustable rate of words per minute.

This new model does not require electric power, and is silent. Rates of speed are easily set by a rotating dial within a range of from less than 30 to more than 3,000 words per minute. The Accelerator will accommodate all types of reading material without any special preparation. It folds for transportation, is lightweight, and can be carried easily and set up anywhere.

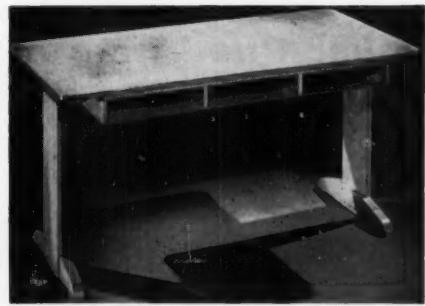
SCIENCE RESEARCH ASSOCIATES, 57 W. Grand Ave., Chicago 10, Ill.



Trapezoidal Multi-Mode Table, No. 2330



Round Table, No. 2320



Study Table, No. 2310



National Folding Table

For maximum flexibility... National Multi-purpose School Furniture fulfills every classroom requirement

With the exclusive

NATCOLITE
Laminated
School Top

Here is a complete line of multi-functional school equipment, designed to meet the specifications of modern teaching techniques. This furniture is completely versatile — easily arranged and rearranged to allow for an infinite variety of uses. Every desk and table in the National line has a Natcolite school top, surfaced with Nevamar plastic laminates in wood-grain patterns, specially developed and tested for uniform, low light reflectance and banded with matching Wynene plastic edging. The Natcolite top withstands years of punishment and eliminates maintenance problems, because it never needs refinishing or resurfacing. National School Furniture is highly efficient and modest in cost—adaptable to any school budget.



National School Chair,
No. 2610 Deluxe
No. 2710 Standard

This is
NEVAMAR

- a high-pressure laminate surface
- designed for long life and lasting beauty
- resistant to cigarette burns
- withstands boiling water
- won't craze, crack or split in normal use
- not affected by alcohol, fruit acids, ammonia, ordinary ink . . . or lime
- easy to clean

© 1955 NATIONAL STORE FIXTURE CO., INC.
ODENTON, MD.
Guaranteed by
Good Housekeeping
NOT AN ASSOCIATED TRADEMARK

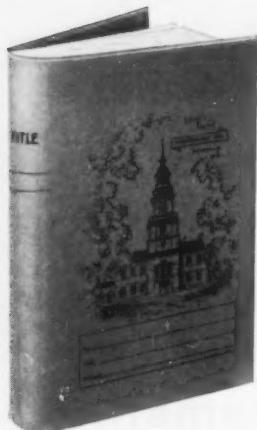
NATCOLITE
TOP
NATIONAL STORE FIXTURE CO., INC.
ODENTON, MD.

- Write today for the complete new catalog of the National line of multi-purpose school furniture.

NATIONAL SCHOOL FURNITURE COMPANY

Div. of National Store Fixture Co., Inc.

ODENTON, MARYLAND



BOOK COVERS

to be effective, must withstand all the weather conditions which students encounter, carrying books to and from school. They must also resist the rubbing and scuffing incidental to their use in the classroom.

HOLDEN BOOK COVERS are made of a paper especially designed to meet these requirements . . . and

They are attractive

They are easily adjusted — and
They stay on the book.

They represent a definite dollar-and-cents saving because they prolong the life of the book from one to three years.

Get The HOLDEN Habit — IT PAYS!

HOLDEN

PATENT BOOK COVER COMPANY

Springfield, Massachusetts

SE-452

SPHINX

Noiseless

CHAIR GLIDES

**MADE ESPECIALLY FOR
SCHOOL FURNITURE**

Replacing worn out glides is expensive... save this expense...request Sphinx long wearing glides on your new furniture. Thickness and quality of the metal base determines the life of the glide. Samples available, no obligation.

sphinx CHAIR GLIDE COMPANY
FULLERTON CALIFORNIA

214

SE-453

The Number One Value In FOLDING TABLES

by *Midwest*

First in value because they have everything you want in a folding table—modern styling . . . master crafted finishes . . . ease and safety of handling . . . compactness for storage . . . made to last . . . greatest seating comfort.

SPACE PROBLEMS SOLVED

Midwest tables are the perfect solution for effortless low-cost conversion of multi-use rooms. The No. 1 choice of leading schools, clubs and institutions because they set up easily, fold quickly, and store compactly when not in use.

CHECK THESE VALUE-PACKED FEATURES

- Exclusive "off-center" leg design for seating comfort.
- Exclusive safety lock that secures legs in both folded and extended positions.
- Double-braced legs guaranteed 5 years.
- Smooth sanitary tops sealed and lacquered.
- Chip-proof plastic molding.
- Extension legs available to adjust seating heights.

Whatever your table needs, there are Midwest Folding Tables available to meet them . . . in a complete range of styles, sizes and choice of top materials. Write for Free Catalog today!



FOLDING PRODUCTS

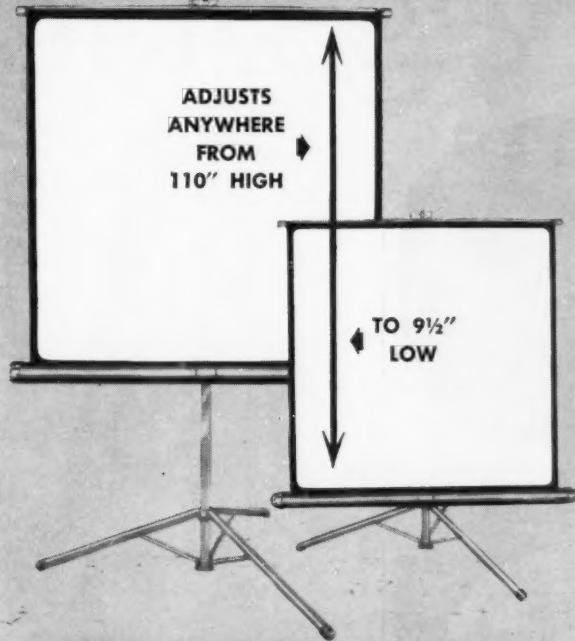
Midwest Dept. 654

Roselle, Illinois

THE SCHOOL EXECUTIVE

**whether rooms are
DARK or LIGHT
RADIANT has the right screen**

Hundreds of leading school systems from coast to coast have solved their lighting problem—by adopting one of these great Radiant school screens. These new developments in reflective surfaces are ready to help your school, too!



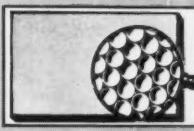
For darkened rooms

New RADIANT "Educator" with full height adjustment

For classroom or auditorium . . . with or without platform or stage, the Radiant Educator can be quickly set up for perfect visibility. A touch of the toe and the extra sturdy tripod legs fly open. The 70" model adjusts from only 9 1/2" from the floor to a height of 110" . . . and is easily adjustable to square sizes for slides, rectangular sizes for movies. Fully guaranteed for 10 years.

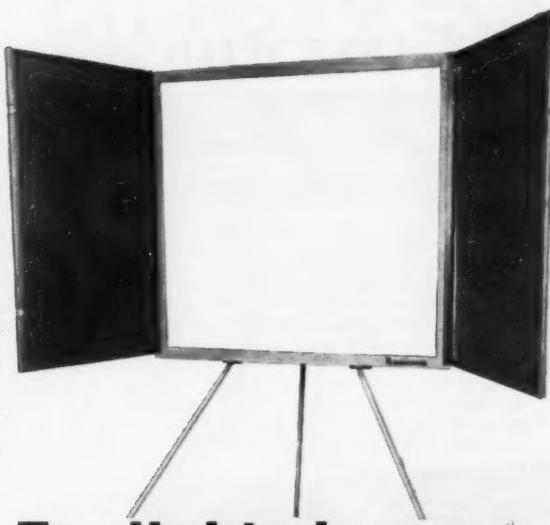
Brighter, More Brilliant Pictures, Too!

The "EDUCATOR" features Radiant's new, improved "perma-White" Processed Vyna-Flect glass beaded fabric to guarantee the most perfect picture projection possible. And this Vyna-Flect is mildew-proof, flame-proof and washable.



RADIANT Projection Screens

RADIANT MANUFACTURING CORP. • 1210 S. TALMAN • CHICAGO 8



For lighted rooms

New RADIANT "Classroom" with full 90° viewing angle

Projecting in lighted rooms is no longer a problem. The advanced design of the Radiant "Classroom" Screen has proven its ability to show bright, clear pictures under normal artificial or daytime lighting conditions. Doubles the efficiency of visual aid programs . . . eliminates the need for costly room darkening equipment in most classrooms. The screen surface is unbreakable.

Brilliant, clear pictures which can be seen throughout a full 90° viewing angle permits every student to see a sharp, clear picture from his own seat.



Ask for demonstration to determine whether Radiant "Classroom" can solve your lighted room problems.

FREE! Send Coupon Today for detailed specifications on these two outstanding Radiant Projection Screens. Illustrated, descriptive circulars and price lists will be sent without obligation.

RADIANT MFG. CORP.

1210 S. Talman, Chicago 8, Ill.

Yes, I want to get full story of the two remarkable new developments—the Radiant "Educator" and "Classroom" Screens.

Name _____

Address _____

City _____ Zone _____ State _____

My dealer's name is _____

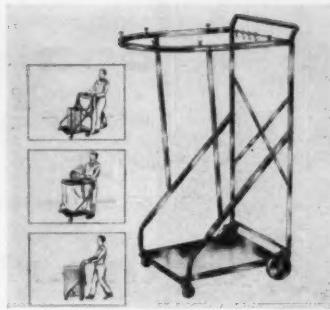
Utility Truck

SE-644

Folds for Storage

The new Model D-90 Jan-I-San features a steel platform base that easily transports cans, supplies and equipment of all kinds. The rugged steel frame stands on four easily rolling wheels. The front swivel casters steer freely in any direction. The frame folds instantly for compact storage; carries a detachable canvas bag with full 5 bushel capacity.

Four utensil hooks below the push handles keep needed cleaning tools



always handy.

THE PAUL O. YOUNG CO., School Truck Div., Line Lexington, Pa.

PLAY SAFE WITH

THE **RECREATION** LINE

PLAYGROUND EQUIPMENT

Now children play safely on durable Recreation Swing Sets, designed to meet your playground needs. These rugged Swing Sets feature 2" top rails and 1½" pipe uprights with oilless swing bearings. A short span frame is designed to assure adequate swing separation.

Here's a welcome, low-cost addition to any playground—Recreation's Outdoor Fan-shaped Metal Basketball Outfit with 4' extension. The metal backboard and extension are supported by two heavy 3" hot galvanized steel pipes, connected by a 2" steel pipe frame.



Take it from Rufus, the Guardian Angel, Recreation's new rubber Swing Belts eliminate swing injuries and dangerous falls.

The durable construction of Recreation's All-Metal Land Slide with its sturdy structural steel supports and ladders, high guard rails, and heavy-duty chutes insures years of safe, trouble-free service.

Contact Recreation's Engineering Staff and plan a safe, yet low-cost playground installation!

WRITE TODAY FOR YOUR RECREATION CATALOG

- Playground Equipment • Swimming Equipment
- Basketball Equipment

RECREATION EQUIPMENT CORP. • DEPT. SE-45
724 WEST EIGHTH STREET, ANDERSON, INDIANA

Cleanser-Bleach

SE-645

In New 21-Oz. Size

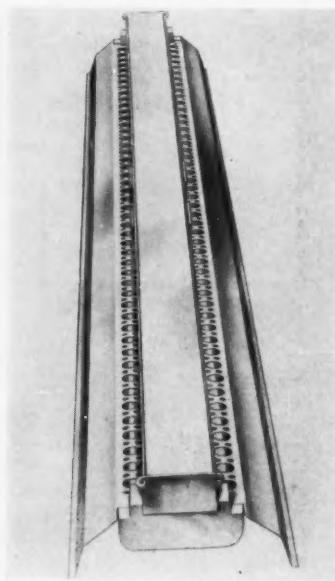
Pal-lo Cleanser with bleach is formulated and packed specifically for institutional use. It is a highly effective, all-purpose powdered cleanser for use on cooking and eating utensils, on tubs, sinks, tile, walls and all painted surfaces.

PAL PRODUCTS MFG. CORP., 180 Sullivan St., Brooklyn 31, N. Y.

Lighting Unit

SE-646

Features 10% Uplighting



The new Turreter Series 5 lighting unit provides approximately 10% uplighting by means of scientifically designed apertures in the top of the reflector.

Engineered to provide a minimum of glare caused by contrast between lighted and dark areas in order to achieve uniform and comfortable lighting, these units are available in many variations to meet a wide range of lighting requirements.

The units are furnished standard with all white housing. Equipped with the Smithcraft Fas-Loc Reflector Fastener which has been designed for easy and convenient reflector removal.

SMITHCRAFT LIGHTING DIV., Chelsea 50, Mass.

Samsonite

**ANOTHER LEADING MANUFACTURER OF
SCHOOL FURNITURE**

chooses St.Regis Panelyte!

THE work-surfaces in the new Samsonite classroom furniture are of beautiful St. Regis Panelyte. They are the answer to the crying need for durability, for low upkeep.

This durable surface gives desk tops and table tops their color, design and practicability. It lasts as long as the furniture itself. It retains its original color and pattern. Best of all, it resists all kinds of wear . . . scratching, scuffing, splashing, staining.

For an outstanding contribution to functional classroom furniture, St. Regis pays tribute to Samsonite and to the eminent designer, Russel Wright.

You can learn more about this superior material, St. Regis Panelyte, by mailing the coupon below.



St. Regis Panelyte is a high-pressure laminate surface, almost indestructible in normal use. In a wide range of colors, patterns and wood grains. Heat, stain and wear-resistant. Write today for the full story and sample chip.



St. Regis Paper Company

ATTN: SCHOOL DEPT.

Sales Subsidiary: St. Regis Sales Corporation
Panelyte Division, 230 Park Ave., New York 17, N. Y.

Please send me complete information and sample chips of St. Regis Panelyte as used on desk tops, wainscoting, stair risers, cafeteria counters, laboratory tables.

Name and Title.....

School.....

City and State.....

SE-455

DISHWASHING BY ATLAS COSTS LESS THAN BY HAND

Whether you employ a dishwasher or wash your own dishes, you cut labor costs in half with an Atlas dishwasher. It cleans a basket-full in 30 seconds, freeing its operator for other duties. Exclusive "Figure 8" Directional Flow forces hot, soapy water in and around every surface of every dish, cutting grease and dirt like magic. A constantly-changing, 180 degree rinse assures positive sanitation and complete health authority approval. And with less dish handling, there's less dish breakage. It adds up to this: hand labor cannot compete with an Atlas dishwasher. Write today for pamphlet and data on how an Atlas will pay for itself in one year.

Light NEW
Plastisol-coated basket
protects dishes,
lasts longer

Much lighter than old-style baskets, new Atlas with Plastisol-coating resists food acids, greases, and hot water. Won't mar, scratch, chip, or discolor dishes. Extended handle protects basket-bottom from scuffing. Standard equipment on all Atlas dishwashers.

ATLAS DIVISION
National Cornice Works
1323 Channing Street, Los Angeles 21, Calif.

SE-458

this typing classroom chair
OFFERED ON ...
FREE
30 DAYS' TRIAL

Send request saying, "Ship Typing Classroom chair for 30 days' free trial". No obligation to you. If you don't want to keep the chair, tell any school supply salesman to pick it up.

FITS 'em ALL Instantly!

There's no other chair on the market that will give your students INSTANT height adjustment. No tools. It's Dependable's answer to the crying need for tru-posture chairs in the typing classroom. Besides instant height adjustment Dependable's Tru-Posture Chairs have 4 other quick adjustments: (1) back rest raises or lowers, (2) back rest adjusts forward or back, (3) back rest regulates to any degree of tension, (4) back rest flexes to fit body.

Send request at once. No obligation. Address: *Tru-Posture Typing Chairs*.

DEPENDABLE MANUFACTURING COMPANY
New Factory at Bellevue, Nebraska

**Insist on
Eagle
SCHOOL SETS**



EAGLE NO. 03162 All brass half-mortise lock for fine cabinet work. May be ordered for either right or left hand doors.

EAGLE NO. 03202 All brass half-mortise pin tumbler drawer lock with unlimited key changes for fine cabinet work.

For one Key convenience, make certain your architect specifies Eagle high quality Cabinet Locks. Available in Keyed alike sets and Master Keyed to meet all requirements.

SPECIALISTS IN SCHOOL LOCKS FOR OVER 100 YEARS

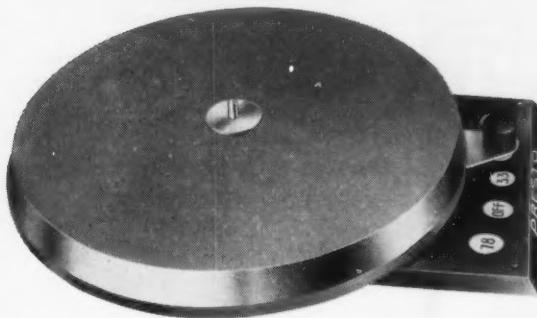


the EAGLE LOCK CO.
Subsidiary of Bowser, Inc.
TERRYVILLE, CONNECTICUT

PRESTO makes news for your school!

NEW PRESTO T-18 TURNTABLE

with streamlined shift!



a simple sideway flick of the single control lever...

*selects 3 speeds—33 1/3, 45, 78 rpm

*engages and disengages idler wheels

*turns motor off and on

No more complications! PRESTO simplifies operation down to A-B-C with new-design T-18—the turntable that eliminates trouble-making arms and shift cams, assures trouble-free performance.

Plus! Extra heavy weight, beveled edge, cast aluminum turntable. Center spindle with built-in adapter for 45 rpm discs. Smart, modern design in brushed chrome and telephone black.

Get PRESTO's new T-18—the professional broadcast-quality turntable geared to take the hard knocks of daily use in your school. Only \$53.50!

Here is the world-famous PRESTO quality—preferred in radio and recording studios for accuracy and durability—and you can afford it on your school budget! Sound investments at these new low prices.

FIRST TIME EVER!

A PRESTO PROFESSIONAL TAPE RECORDER
AT A SCHOOL-BUDGET PRICE!



**PRESTO SR-27
TAPE RECORDER**

with famous quality features found in the finest PRESTO broadcast equipment. 2 units—for easy carrying and professional performance!

(1) famous PRESTO R-27 tape mechanism

- 3-motor drive
- Fast forward and re-wind
- No take-up reel clutch
- Self-adjusting brakes
- 3 heads—erase, record, reproduce

(2) famous PRESTO A-920 amplifier

- 10 watts output at 16 ohms
- Self-contained power supply
- Illuminated VU Meter
- 2 playback speakers
- Instantaneous tape monitoring during recording

PRESTO

**RECORDING CORPORATION
PARAMUS, NEW JERSEY**

Export Division: 25 Warren St., New York 7, N. Y.

Canadian Division: Instantaneous Recording Service, 42 Lombard St., Toronto

WORLD'S LARGEST MANUFACTURER OF PRECISION RECORDING EQUIPMENT AND DISCS

Wood Lacquer SE-647

For Refinishing Old Desks

Old desks and chairs can be refinished easily with Delkote Wood Lacquer. Packaged in self-spraying, aerosol cans, the lacquer can be applied quickly and easily. It dries dust-free in ten minutes.

This lacquer is also recommended for use in manual training shops.

DELKOTE, INC., 1419 Faulk Rd., Wilmington, Del.

Tape Recorder SE-648

Operates at All 3 Speeds

Bell's latest tape recorder, Model RT-75, has exceptionally fast forward and rewind speeds. A standard 1200-foot spool of tape may be rewound in only 70 seconds. And, a fast forward permits forward cueing of an entire 1200 spool in just 90 seconds.

Controls include volume, tone boost and cut, and push-button recording control with safety interlock which

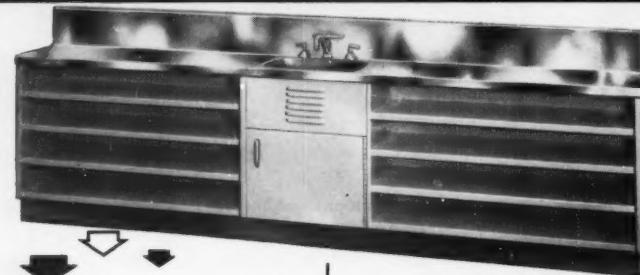


positively prevents accidental erasure. Two microphone inputs are provided —one for hi-z and one for dynamic or ceramic mikes. A radio-phono-TV input is also provided, and this can be mixed with the microphone inputs.

There is a 6" x 9" oval speaker built in to provide high quality sound. This recorder is supplied with crystal microphone, empty five inch reel, one 600 foot spool of tape and complete instructions.

BELL SOUND SYSTEMS, INC., 555 Marion Rd., Columbus 7, Ohio.

pupil...teacher...school administrator... EVERYBODY BENEFITS WITH THE GRADE-AID COMBINATION SINK— WORK COUNTER AND STORAGE CUBICLES!

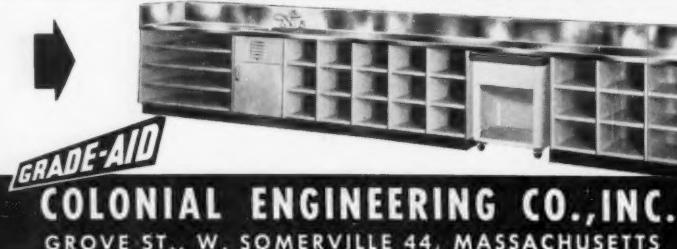


Yes, everybody enjoys the benefits of this wonderful all-steel Grade-Aid combination sink-work counter and storage cubicles. Pupils like it because it's "height-fitted" to their primary or grammar grades — teachers find it easy to keep clean, with plenty of storage space — school executives like its permanence, its ability to withstand abuse! No wonder GRADE-AID is being acclaimed in hundreds upon hundreds of classrooms, in both new schools and old!

HERE ARE JUST THREE OF MANY EXCLUSIVE FEATURES!

- FUNCTIONAL SPACE SAVER — combines many uses into one compact unit! Shelf units, cubicles, sink and top can be grouped in any way to any length!
- HEAVY-DUTY STEEL CONSTRUCTION — strong and durable! Eliminates defacing and "carving"! Stainless steel top for lifetime use (plastic or linoleum also available)!
- EASY TO INSTALL — unit shipped completely assembled, ready for plumbing connections!

• WRITE TODAY FOR THE NEW GRADE-AID CATALOG...
IT'S YOUR FREE "GUIDE TO CLASSROOM DESIGN"!



GRADE-AID

COLONIAL ENGINEERING CO., INC.
GROVE ST., W. SOMERVILLE 44, MASSACHUSETTS

Overhead Projector SE-649

Has Brighter Illumination



A new classroom teaching lantern-slide projector, No. 1055, has brighter illumination on the screen, is quieter, and cooler. It will take projection lamps of 500-watts, 750-watts, and 100-watts.

The new projector will project standard 3 1/4 x 4" lantern slides, multiple Tachistoslides and, with accessories, 2" slides, stripfilms, and microscopic slides.

KEYSTONE VIEW Co., Meadville, Pa.



**high mark
in any
school room**

Arlington NO. 101 MOVABLE CHAIR DESK

If school seats and desks were graded like students . . . here's a unit you'd award a straight "A" all the way. Ruggedly built, comfortable, adaptable to every school room need.

GRADE "A" DESIGN THROUGHOUT



Sturdy hardwood desk top. Ample work surface. Inkwells available if desired.



Arlington Uni-Steel "one-piece" body gives strength without excess weight.



Posture correlated seat and back give day-long comfort . . . minimize fatigue.



Desk height adjustable.



Silent-slide rubber cushioned steel feet.



Available with open or closed end panel.



Write for Catalog No. 55
... Arlington desks, tables
and chairs for every
school room need.



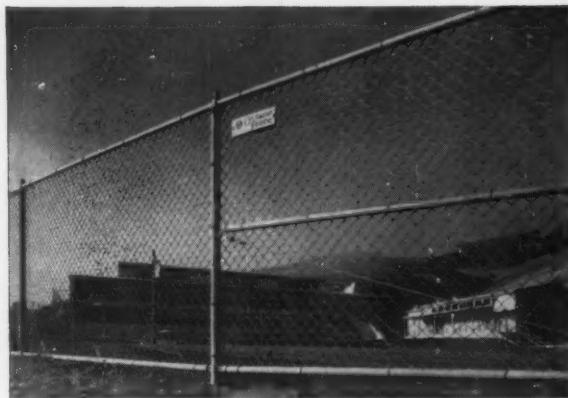
ARLINGTON SEATING COMPANY

Arlington Heights • Illinois

For over fifty years . . . a
dependable source of supply

SE-463

CYCLONE FENCE



... protects scholars ... protects schools

• WHEN INSTALLED around playgrounds like this, Cyclone Fence creates a safe recreation area for small children—even with a minimum of teachers' supervision. The children can't forget and run out into the street, and stray dogs and vagrants are kept harmlessly outside. And since Cyclone Fence is on duty twenty-four hours a day, it also protects those valuable swings, slides and exercise bars from theft or damage.

You can buy *cheaper fence* than Cyclone, but it will cost you *more per year*. Cyclone gives full value for your dollar. Nothing but brand-new, top-quality material is used throughout. Posts and top rails are heavy and rigid. Gates won't drag. The chain link fabric is woven from heavy steel wire and galvanized *after weaving* for greatest resistance to rust and corrosion. And Cyclone is erected by full-time, Cyclone-trained experts.

Our engineers, located in principal cities, will gladly supply you with data and advice on your particular school fencing job. Write or phone for this free service.

NO JOB IS TOO LARGE— NO JOB IS TOO SMALL FOR CYCLONE*

CYCLONE FENCE DEPT., AMERICAN STEEL & WIRE DIVISION
UNITED STATES STEEL CORPORATION

WAUKEGAN, ILLINOIS • SALES OFFICES COAST TO COAST
UNITED STATES STEEL EXPORT COMPANY, NEW YORK

USS CYCLONE FENCE

*Cyclone is the trade-mark name of fence made only by Cyclone. Accept no substitute.

MAIL COUPON FOR FREE LITERATURE

Cyclone Fence, Dept. 345, Waukegan, Ill.

Please send me without obligation, complete information on Cyclone Fence and Gates.

Name.....

Address.....

City.....State.....



UNITED STATES STEEL

SE-464



TUCK'ER 'WAY FOLDING CHAIR

A rugged, low-cost folding chair for schools, churches, classrooms or assembly halls.

- Built to stand hard abuse
- Easily opened or closed with hand or foot
- Folds flat, stacks flat. Can be stacked without toppling
- Built of hardwood throughout, uniform in color
- No metal to catch clothing or pinch
- Rounded corners, smooth finish
- Exceptionally wide seat and back
- Finished in natural, stained, or colored

EASY
✓ to open
✓ to close
✓ to stack

Send for catalog

Tucker Duck & Rubber Co.

Ft. Smith, Arkansas

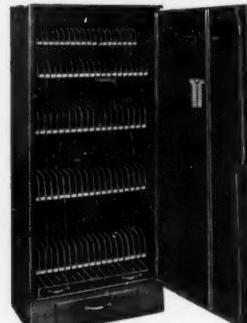
SE-465

TRADE MARK
Neumade

ALL STEEL COMBINATION STORAGE UNITS

YOU CAN BE SURE that your stored films will be safe from dust, heat or dryness with NEUMADE COMBINATION STORAGE UNITS!

**PROTECTS
YOUR
FILM!**



Model MM-119-A practical storage cabinet for the varied film library. Holds 400, 800, 1200, 1600 ft. reels; 100 filmstrip cans plus utility drawer in base. Overall size: 30" wide, 70" high, 16" deep. Over 30 models to choose from. Write for free catalog.

TRADE MARK
Neumade

PRODUCTS CORPORATION
330 West 42nd Street
New York 18, New York

**"We saved over 1600 man hours
using 'UP-RIGHT'
SCAFFOLD-ON-WHEELS"**

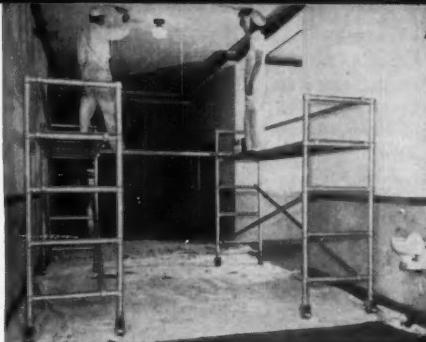


"Our summer program of overhead building and classroom maintenance that formerly took 13 weeks is now completed in only 8 weeks thanks to Up-Right's mobility and rapid assembly!"

Stairways are taken in stride . . . legs instantly adjustable for perfect leveling of platform. ➤



UP-RIGHT SPAN SCAFFOLDS



Write for descriptive circular!



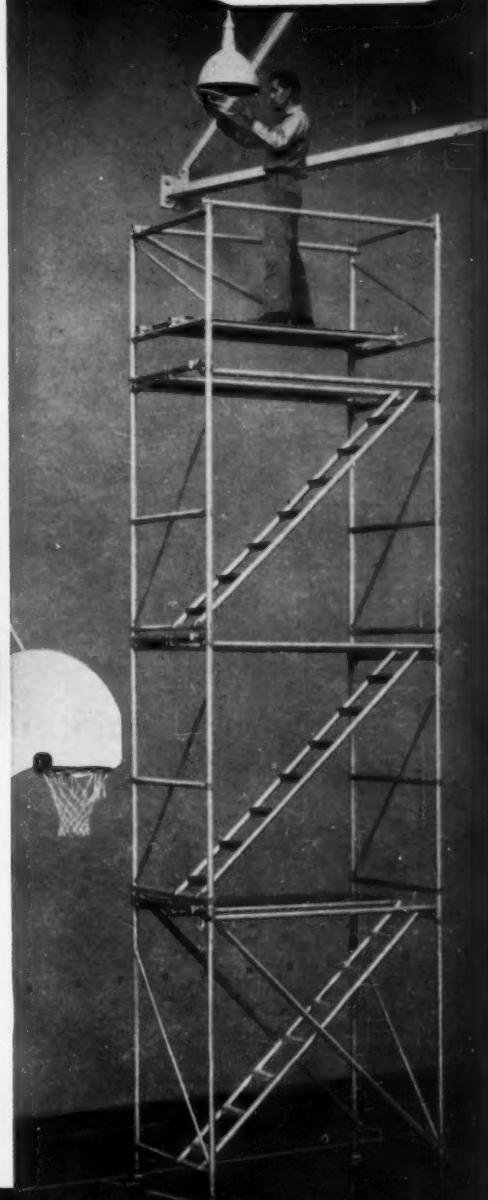
"Two 10 ft. span scaffolds pay for themselves on any school paint job of 6 rooms or more," says Leonard T. Anderson, painting contractor, Turlock, California.

"UP-RIGHT" SCAFFOLDS

DEPT. 154 • 1013 PARDEE STREET • BERKELEY, CALIFORNIA
FACTORIES: Berkeley, Cal. and Teterboro, N. J. Offices in all Principal Cities

**NEW, FASTER, SAFER WAY
TO GET UP IN THE AIR
AND ROLL WITH THE JOB.**

In minutes, a mobile tower of any height desired is erected by setting individual sections one on top of the other. The one-piece folding sections are quickly assembled without tools, wing nuts or bolts.



UP-RIGHT TOWER SCAFFOLD
Aluminum Alloy

Small School Bus SE-650 Seats 16-20

The Superior Pacer is small and compact yet the generous inside provides two rows of 30" forward-facing seats for 16 to 20 persons, separated by a 13½" aisle. All the safety and comfort features found in larger school buses are built into this unit.

This bus is recommended for routes where roads are narrow and winding; sparsely populated areas where long runs are necessary; activity bus for small groups; feeder bus to main route lines, etc.

The Superior Pacer can be mounted on any pick-up truck chassis and carries the same specifications as regular school buses.

SUPERIOR COACH CORP., Southern Div., Kosciusko, Miss.

Index File SE-651 Is Electrified

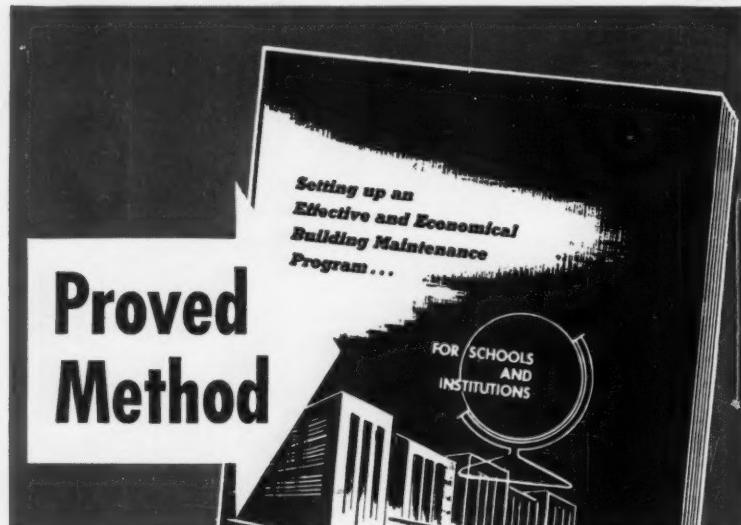
The Kard-Veyer is an electrified rotary card index file designed for rapid reference and posting operations. It contains movable shelves which travel from either direction,

SE-467



bringing the required tray to the reference area from either above or below, stopping at posting level by automatic leveling. The operator doesn't have to leave her position at the unit because the Kard-Veyer, equipped with chair and posting boards, forms a complete and compact work station.

REMINGTON RAND INC., 315 Fourth Ave., New York 10, N. Y.



Stretches School Maintenance Budget!

Before you spend money or budget for maintenance on roofs, floors, windows, interior or exterior painting, or waterproofing, it will pay you to consider the Tremco Planned School Maintenance Program.

The Tremco Organization, with 26 years of Preventive Maintenance experience with school systems, has developed a simple, unique plan, which is saving many school boards large sums of money. Your Tremco

Representative — experienced in every phase of building maintenance — will be glad to explain the plan and present you with a copy of the 20 page booklet entitled: "Setting up an Effective and Economical Building Maintenance Program." You are, of course, under no obligation. Write us or call your Tremco Man. The Tremco Manufacturing Co., Cleveland 4, Ohio; and The Tremco Mfg. Co. (Canada) Ltd., Leaside, Toronto, Ont.

TREMCO

PRODUCTS AND METHODS FOR BUILDING
MAINTENANCE & CONSTRUCTION

THE TREMCO MAN CAN ALSO HELP YOU SOLVE PROBLEMS INVOLVING

ROOFS PAINTING SASH FLOORS WATER REPELLENCE

Water Cooler SE-652 Has New Cooling System



The 1955 line of Temprite drinking water coolers offers cooling capacities from 5.2 to 27 gallons per hour at standard rating conditions. The newly designed evaporator offers instantaneous cooling with storage.

The satin-finish stainless steel top features an extra deep basin. This feature combined with the extra full anti-splash guard and automatic water control prevents splashing and spouting.

A dual water control offers both finger-tip button operation and foot pedal control.

TEMPRITE PRODUCTS CORP., Birmingham, Mich.

THE IRWIN UNI-DESK

No. 454



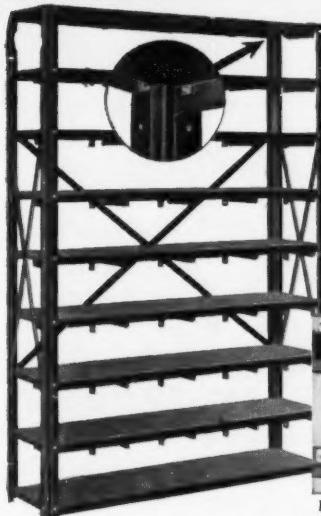
ONLY THE IRWIN UNI-DESK PROVIDES
ALL THESE IMPORTANT FEATURES—COMPARE

IRWIN UNI-DESK	DESK A	DESK B	DESK C	DESK D
ONE PIECE DESK TOP	X			
G-E TEXTOLITE DESK TOP	X			
ONE PIECE FORMED STEEL BOOK BOX	X	X	X	
OUTSIDE ROLL ON BOOK BOX EDGES	X			
CONVEX EMBOSSED ON BOOK BOX BOTTOM	X			X
BOOK BOX AND CHAIR ADJUSTABLE FOR HEIGHT	X	X	X	X
LONGITUDINAL FRAME ADJUSTMENT	X			
CRADLE-FORM SEAT	X	X		
90° SWIVEL SEAT	X	X	X	X
AUTOMATIC SELF-LEVELING DEVICE	X			
HARDENED AND POLISHED RUBBER CUSHION GLIDES	X		X	X

IRWIN Seating Company GRAND RAPIDS MICHIGAN

NEUBAUER "TWIN-POST" Gym BASKET RACK

U.S. Pat. No. 2,621,800



Rigid Corner Posts—Safer Recessed Hasps

The Neubauer "TWIN-POST" corners are actually 2 posts with 3 strong corners (see inset circle). They keep the whole basket rack rigid and in line.

Note below how dividers guide and separate baskets and how hasp and padlock are neatly recessed inside shelf edge. Eliminates danger of cuts and bruises.



FREE ESTIMATES — Neubauer gym Basket Racks are made in capacity desired for any size basket and can be equipped with casters. Olive green or airline grey. Special colors available.

We also make Neubauer "Twin-Post" shelving in range of sizes. Write for literature.

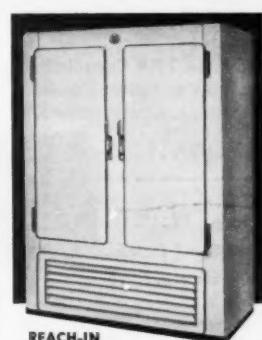
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Supreme Cooler gives you controlled temperature — sanitary, economical operation for a more efficient Milk Program. Stainless steel lids, 3" Fiberglass insulation.



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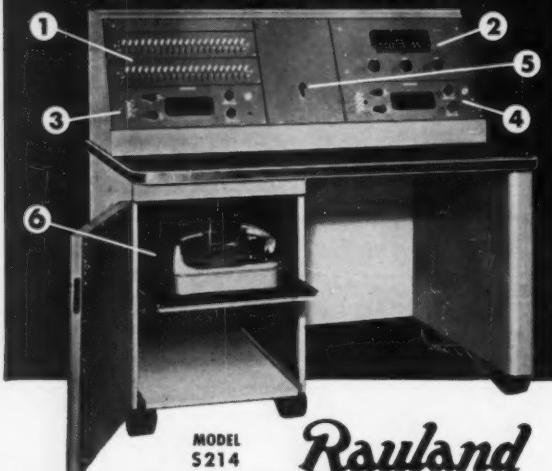
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Your choice of every desirable program facility**① SWITCH PANEL**

Selects any or all rooms (available with up to 40 room capacity). Distributes any 2 programs; selects communication and room-return.

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Selects and distributes any of 2 microphones (one at Console and one remote), Radio or Phonograph.

⑤ ALL-CALL SWITCH

An Emergency and All-Call feature—instantly connects all rooms to receive programs or instructions.

② FM-AM RADIO

Selects any radio program on the complete FM band or the entire AM standard Broadcast band for distribution to any or all rooms.

④ INTERCOM

This panel serves as the second program panel and as the intercom panel permitting 2-way conversation with any room.

⑥ RECORD CHANGER

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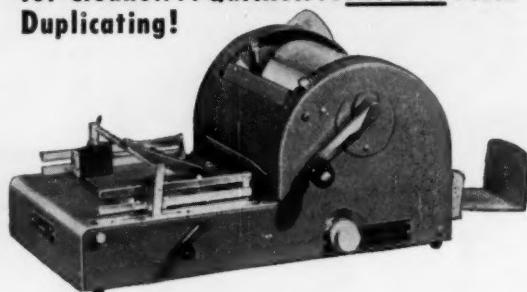
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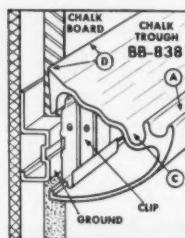
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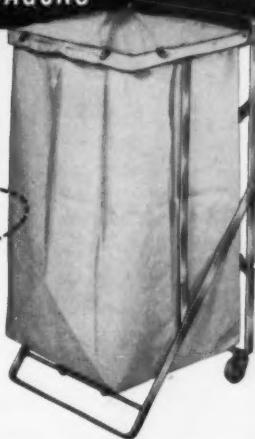
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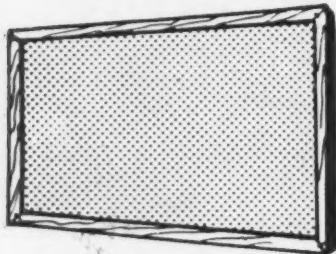
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The heavy-duty bulletin board shown above is of self-sealing cork over a sturdy fibre board base. It

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Available in two sizes: 18" x 28" and 24" x 36".

GENERAL SCIENTIFIC EQUIPMENT Co., 2700 W. Huntington St., Philadelphia 32, Pa.

Knob Bumpers SE-654
Are Made of Rubber

Now, button-type knob locks can strike a concave molded rubber bumper without the lock engaging or the mechanism being injured. Neither

the bumper nor the rubber can be removed by unauthorized persons.

These concave flush bumpers have a hidden method of attachment. An unseen Phillips Head mounting screw can be contacted only by forcing a Phillips Head screw driver through a tiny hole in the rubber. The concave rubber is especially attached to be tamper-proof.

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SE-477

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- Works FAST; is self propelling.
- Renews wax and polishes in 1 operation.
- Has powerful vacuum; does a clean job.
- Ruggedly built, yet weighs less than 90 lbs. Powered by 1 h.p. motor.

A fast, new type floor machine of exclusive design—with built-in vacuum and a dry-waxing device—attracted special attention at the recent AASA show in St. Louis.

The new machine is self propelled and reportedly maintains classrooms, gyms and other areas in about $\frac{1}{3}$ the time ordinarily required.

It also provides an exclusive dry-waxing and polishing technique for fast, low cost renewal and maintenance of wax coatings on floors.

The machine covers a 21" path; uses a cylindrical drum for buffing, rewaxing, polishing or scrubbing; has powerful vacuum (3450 rpm fan).

Other features include dry wax cartridge, $8\frac{1}{2}$ " nose clearance, easy portability (weighs less than 90 lbs.). For details write to the G. H. TENNANT Co., 2540 N. 2nd St., Minneapolis 11, Minnesota.

Pre-Rinse Faucet SE-655

Nozzle Will Not Clog

A new low-cost pre-rinse faucet features a unique spray assembly with a guaranteed non-clogging nozzle.

A simple hand adjustment makes it possible for the operator to vary the flow from a powerful pin point stream to a wide and strong spray.

Another unique feature is the flexible hose connection made from a special smooth surface, triple layer tubing which will stand temperatures as high as 200°F and pressures up to 200 lbs. Economy tubing complies with the most rigid sanitary codes.

Available in deck type 4" and 8" center connection.

ECONOMY FAUCET CORP., 12 New York Ave., Newark, N. J.

Reading Easel SE-656

Page Holders Move in Arc

A Reading Rack is now available for desk or lap use. The book is held at the proper angle for rapid reading and three different adjustments are possible.

The page holders move in an arc at right angles to the ledge on which the book rests. A simple flick of the finger lowers the holders until the page is turned. Another flick of the finger returns the holders to its page-holding position.

Made of dark brown tempered masonite approximately 8 x $10\frac{1}{2}$ ", with felt pads on base.

ENDOLANE ENTERPRISES, Route 3, Antioch, Ill.

SCHOOL EQUIPMENT INDEX—APRIL, 1955

This index covers products and services referred to in both advertisements and editorial reviews in this issue. To find a particular advertisement or editorial listing, consult the key (SE number) which precedes the listing, and which will also be found above the advertisement or listing in the body of the magazine.

If further information concerning any of these products is desired, it will be sent without charge or obligation. Simply circle the identifying numbers on the back of the business reply card below and mail it to us.

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- 302 Johnson Automatic Temperature Control
- 303 Southern Sectional Cafeteria Counters
- 304 Textolite Plastic Counter Surfacing
- 305 Medart Wardrobes
- 306 Oneida School Coaches
- 307 Fibresin Desk Tops
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- 309 Adlake Aluminum Windows
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- 314 Hild Maintenance Equipment & Supplies
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- 322 Mississippi Diffused Glass
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- 325 National Electric Ranges
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- 383 Wenger Choral Risers
- 384 Snyder Steel Bleachers
- 385 Sperti Far-a-matic Electric Clock Systems
- 386 Weber Erasers, Chalk, Chalkboard
- 387 Tectum Roof Deck Ceiling
- 388 Wakefield Lighting
- 389 Bogen Sound System
- 390 Leavitt Bleachers
- 391 Johns-Manville Fibreton Acoustical Units
- 392 Richards-Wilcox Folder-Way Partitions
- 393 Huntington Gym Floor Finish
- 394 Clarin Folding Chairs
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THE SCHOOL EXECUTIVE, 470 Fourth Ave., New York 16, N. Y. April, 1955

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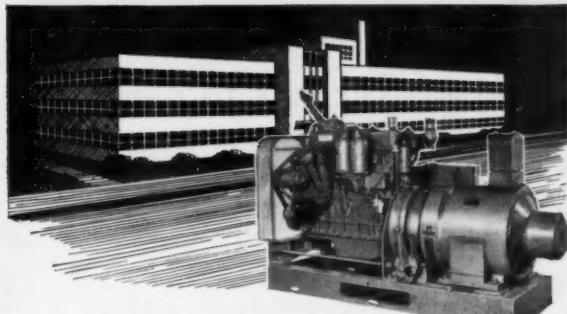
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SE-479

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R-16



R-12



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B-100



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Manufacturers' Catalogs

SE-701 Book Covers

The Use of Holden Book Covers, a four-page, two-color brochure, has just been announced. It tells how book covers prolong the usefulness of the textbook and how they resist varying weather conditions and at the same time keep books neat and sanitary. Holden Book Covers include such features as: (1) they are made of paper, especially designed to withstand the scuffing and rough usage of students; (2) they re-enforce the bindings; (3) the paper is porosity tested to insure the maximum resistance to moisture; (4) they are easily adjusted; (5) they are attractive in design and prolong the life of the book from one to three years. Size specifications are included. HOLDEN PATENT BOOK COVER CO., Springfield, Mass.

SE-702 Electrical Products

Scotch Brand Electrical Products. This 12-page, illustrated guide describes applications, lists physical and electrical properties, and provides representative specifications for each of the Scotch brand products. The products include Scotch brand plastic electrical tapes Nos. 33 and 22, Scotchlok electrical spring connectors, Scotchfil electrical insulation putty, Scotch brand glass cloth tape No. 27, Scotchrap pipe insulation Nos. 50 and 51 and Scotchcast electrical insulating resin. MINNESOTA MINING AND MFG. CO., 900 Fauquier St., St. Paul 6, Minn.

SE-703 Fluorescent Lamps

A new leaflet giving all necessary information for the installation and operation of rapid start fluorescent lamps with Luxtrol light controls has been issued by The Superior Electric Co. The four-page booklet shows a complete wiring diagram and explains the type of

ballasts, sockets and switches to be used. Other items discussed are grounding, starting, ambient temperature and noise. The device operates with rapid start fluorescent lamps of any of the twelve standard colors. The Luxtrol light control type WBD360 unit is the basis of the new development and enables the users to vary light intensity of rapid start fluorescent lamps to any degree, from complete darkness to full brightness, at the turn of a dial. This unit formerly controlled only incandescent lamps but, by the addition of a specially designed ballast, it now operates equally well with fluorescent lighting. The new Luxtrol unit controls a maximum of eight 40-watt rapid start fluorescent lamps. For circuits involving more wattage, larger capacity Luxtrol light controls are available. THE SUPERIOR ELECTRIC CO., Bristol, Conn.

SE-704 Door Control

Catalog S-55. Dor-O-Matic manual and automatic door controls are illustrated and described in detail in this new 8-page catalog which defines the features of each of the four Invisible Dor-Man (automatic) models and the twenty-five manual control models. REPUBLIC INDUSTRIES, INC., 4446 North Knox Ave., Chicago, Ill.

SE-705 Daylighting Products

Daylighting With Wascolite Skydomes. Wasco Products announces the publication of a new folder on its complete line of prefabricated daylighting products. The company's line includes the famous acrylic plastic Skydome and related units that provide daylighting plus ventilation, automatic fire and safety venting, insulation and access to the roof. This new folder contains 12 pages of illustrated, schematic and written material. Each product is shown photographically and also in a detailed schematic drawing. Complete specifications are given for each. WASCO PRODUCTS, INC., 93P Fawcett St., Cambridge 38, Mass.

SE-706 Office Equipment

Form 3547. Among the many new items listed in this new and colorful catalog is a new electronic marvel—the wireless inter-communication system—which requires no wires and no installation. You just plug-in any regular electric light outlet and talk! Also offered in a wide variety of sizes and capacities are the plastic drawer cabinets which have hundreds of uses. Office equipment and other items are also illustrated. GENERAL INDUSTRIAL CO., 5725 N. Elston, Chicago 30, Ill.

SE-707 Porcelain Enamel

Enduring Porcelain Metals, a new 8-page, two-color booklet issued by the California Metal Enameling Co. presents specifications and directions for installing standard panel and laminated panel architectural porcelain enamel. Available by writing CALIFORNIA METAL ENAMELING CO., Architectural Div., 6904 E. Slauson Ave., Los Angeles 22, Calif.

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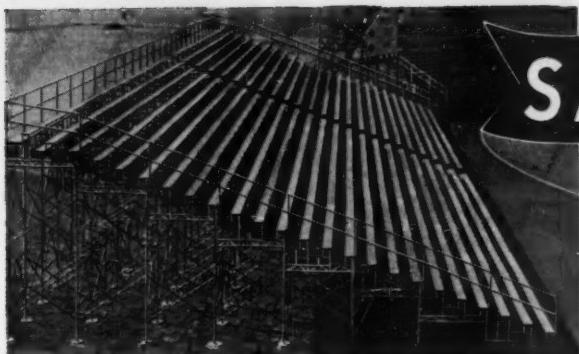
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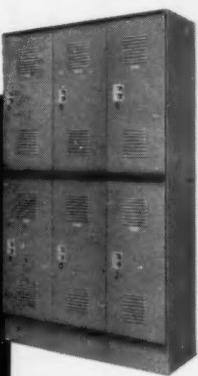
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SE-489

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A COMPLETE LINE OF FLOOR CLEANING EQUIPMENT

Audio-Visual Aids

SE-708 1955-56 Film Catalog

Coronet Films announces the release of its new 1955-56 catalog of 16mm sound motion pictures for educational use. It is available without charge to schools and other training institutions. The 96-page, four-color catalog describes 603 teaching films, most of which are available in full color as well as black-and-white. These are presented in logical sequence from films for kindergarten and the primary grades through the intermediate grades and high school—including special mention of desirable films for use in teacher-education, other college courses, and for adult education. Film listings include a brief description and the length of each

subject, the subject areas and grade levels in which each film may be used most effectively, and identification of the educational collaborator. CORONET FILMS, 65 E. South Water St., Chicago 1, Ill.

SE-709 Filmstrip Guide

The new completely revised *Filmstrip Guide*, a volume of over 400 pages, lists 5,882 35mm filmstrips and replaces all volumes and supplements which have preceded it. It contains a classified subject index and an alphabetical subject and title index. THE H. W. WILSON CO., 950-972 University Ave., New York 52, N. Y.

SE-710 Music Classics

Stories which become beloved music classics are colorfully illustrated in a new series of six filmstrips, produced by

The Jam Handy Organization. Each film-strip reflects the national background of the story and also the mood of the musical theme. Visualizing the story backgrounds, the pictures provide a basis for better understanding and deeper appreciation of the music. The six stories which inspired great composers to write some of our favorite classical music are: *The Sleeping Beauty*, *William Tell*, *A Midsummer Night's Dream*, *The Swan Lake*, *The Bartered Bride* and *Scheherazade*. THE JAM HANDY ORGANIZATION, 2821 E. Grand Blvd., Detroit 11, Mich.

SE-711 Heating Film

Kritzer Radiant Coils has released a new 16mm back-and-white sound film with a running time of approximately twenty minutes, explaining the uses, installation and merits of radiant baseboard heating. Available without charge. KRITZER RADIANT COILS, 2901 Lawrence Ave., Chicago 25, Ill.

SE-712 Operator Training Films

The new Model 65 line of Victor 16mm sound motion picture projectors, manufactured by the Victor Animatograph Corp., is the subject of a film titled *Operation and Care of the Victor 16mm Sound Projector*. Utilized in the educational field, it makes operator training easy, interesting and thorough. A creative approach has been used to illustrate setup, threading, operation, cleaning and lubrication of the projector. Running time is 11 minutes; price \$55.00 for black and white; \$110.00 for color. VICTOR ANIMATOGRAPH CORP., Davenport, Iowa.

SE-713 Film Catalog

Bailey Films, Inc., announces its new catalog of Bailey films for sale and rent, which contains listings of high-quality educational pictures released and distributed throughout the U. S. Approximately 80 titles appear in the catalog. They are listed under Art, Driver Training, Health and Safety, Languages, Language Arts, Primary Grades, Physical Education, Science, Social Studies, and Teacher Training. Single copies mailed free of charge upon request. BAILEY FILMS, INC., 6509 De Longpre Ave., Hollywood 28, Calif.

SE-714 Animals

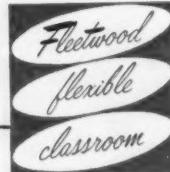
Animals In Spring has been produced especially for use in middle grade, science, reading and language arts classes. The film may also be effectively used in nature study, scout and similar groups. 16mm, sound, 11 minutes, black-and-white or color. ENCYCLOPAEDIA BRITANNICA FILMS, 1150 Wilmette Ave., Wilmette, Ill.

Correction—In our February, 1955 issue we erroneously listed the Post PICTURES CORPORATION, 115 W. 45th St., New York, N. Y. as handling filmstrips. The new Post 18th Edition Catalog, which features Post's largest selection of films obtainable, along with price quotations, lists 16mm sound films exclusively and filmstrips are not available from this company.

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SE-499

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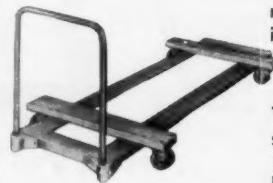


TABLE TRUCK 30" x 72"

Table trucks are designed the same as a chair truck with 2-1/8" x 4" wood battons, will handle 12 any size tables.

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SE-503

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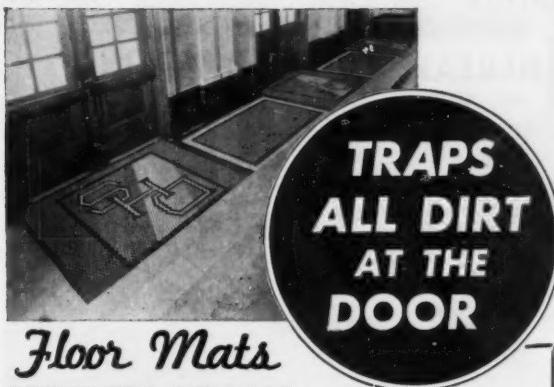
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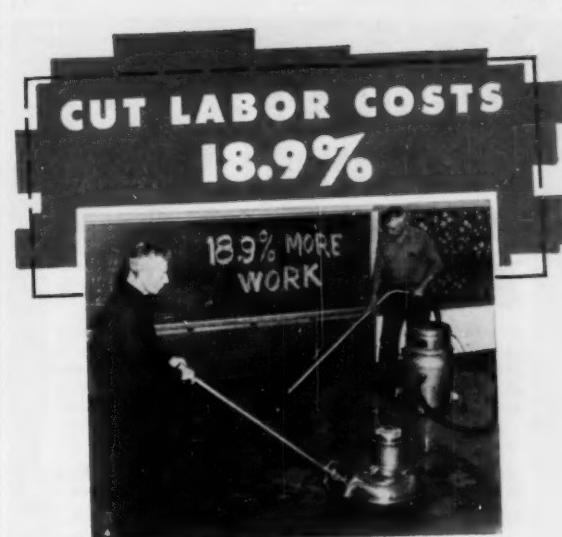
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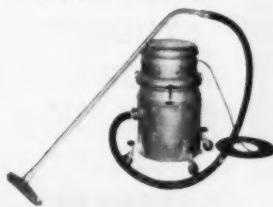
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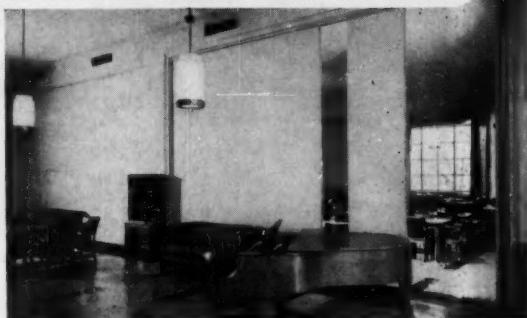
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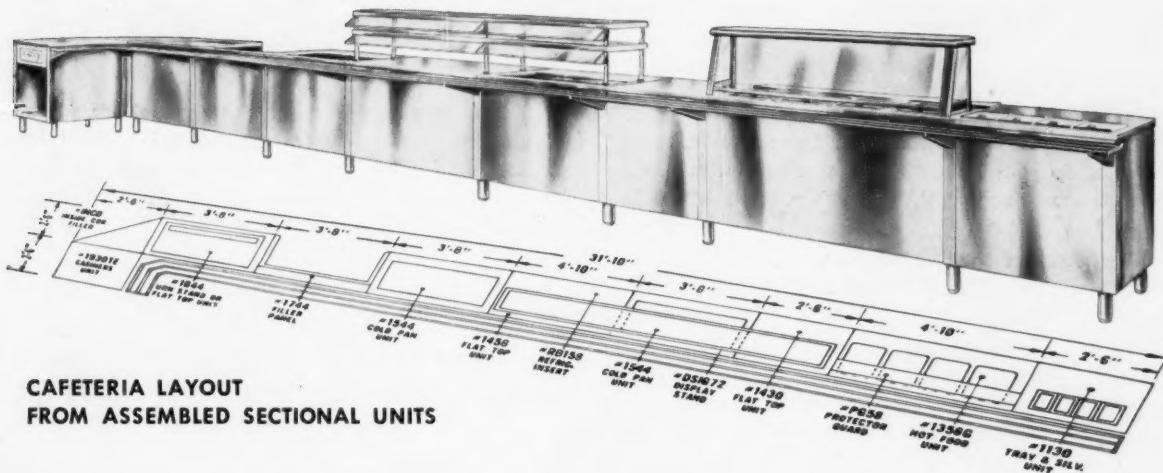
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